SONY

HD-SD DOWN CONVERTER BOARD WITH AUDIO

HKPF-525AV

HD-SD DOWN CONVERTER BOARD

HKPF-525V

HDVS

MAINTENANCE MANUAL

1st Edition

Serial No. 10001 and Higher: HKPF-525AV

Serial No. 10001 and Higher: HKPF-525V

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

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Manual Structure

Purpose of this manual

This is the maintenance manual of the HD-SD Down Converter Board with Audio HKPF-525AV and the HD-SD Down Converter Board HKPF-525V.
This manual describes the information items necessary when the unit is supplied and installed, items that premise the service based on the components parts such as electrical alignment, parts lists, semiconductor pin assignments, block diagrams, schematic diagrams, and board layouts assuming use of system and service engineers.

Related manuals

Beside this Maintenance Manual, the following manuals are available for the unit.

- **Operation Manual (Supplied with the unit)**
  This manual is required when running and operating the HKPF-525AV/525V in practical applications.
  Part number: 3-205-024-XX

- **Installation Manual (Supplied with the unit)**
  This manual describes installation of boards, connectors/cables, setting switches on board and indicators on board.
  Part No. 3-204-919-XX

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**
  This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Communication System Solutions Network Company equipment.
  Semiconductors that cannot be searched for on this CD-ROM are listed in the maintenance manual for the corresponding unit. The maintenance manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.
  Part number: 9-968-546-XX

Contents

The following are summaries of the each section for understanding the manual.

Section 1 Service Overview

Describes information about circuit description, tools and note on replacement of electrical parts.

Section 2 Electrical Alignment

Describes the general information for electrical adjustment and the adjustment procedure of the unit.

Section 3 Spare Parts

Describes exploded views, parts list and optional fixtures used in the unit.

Section 4 Semiconductor Pin Assignments

Contains information on semiconductors used for the unit.
It includes a complete list of the semiconductors and their ID Nos. for retrieving information on “Semiconductor Pin Assignments” CD-ROM, which is available separately.
Please refer to this section together with the “Semiconductor Pin Assignments” CD-ROM.
Information on the semiconductors not contained in the CD-ROM at the time of issue of this manual, if any, is given in this section as well.

Section 5 Block Diagram

Describes overall block diagram of the unit.

Section 6 Schematic Diagrams

Describes schematic diagrams for every circuit board.

Section 7 Board Layouts

Describes board layouts for every circuit board.

Section 1
Service Overview

1-1. Circuit Description

RC-80/80A board

The HD SDI signal that is input from the DIF-96/96A board is converted to the 20-bit parallel data of 74 MHz by IC202. HD-H (horizontal sync signal) and HD-F (frame sync signal) are extracted by the format decoder IC204. The HD digital signal is converted to the 10-bit parallel data of 27 MHz by down-converter IC302 and is output as the SD component digital signal.
The SD digital signal passes through the frame memories (IC400, IC401, IC403) and the SAV/EAV are added to the SD digital signal at the format encoders IC609 and IC610. The EDH signal is also added SD digital signal by IC700 and IC701. The SD digital signal is converted to the SD component serial digital (SDI) signal by IC702 and IC703 and is output via DIF-96/96A. The RC-80/80A board contains the power circuit consisting of the four switching regulators: +3.3 V, +2.5 V, +1.2 V and −2V. It also contains the series regulators regulating +2.5 V power to +1.8 V power. The RC-80/80A board contains also the detection circuits to detect automatically the number of lines (1035/1080) in video area of the picture. The RC-80/80A board stores the statuses such as number of lines in video area immediately before turning off the main power and the field frequency in EEPROM.

In addition, the RC-80A board for the HKPF-525AV processes the audio data.
The audio data is extracted by IC204 and the digital audio signal that is supplied by the multiplexing in the HD SDI signal is separated.
The digital audio signal that is thus separated is written in the FIFO (IC402) and is read while matching the timing with the delay time of the video signal. The digital audio signal that is read with appropriate delay is converted to the parallel data by IC603 and is multiplex with the video signal at IC609, IC610.

DIF-96/96A board

The DIF-96/96A board has the HD SDI signal input connector (one channel), the SD SYNC signal input connector (one channel) and the REMOTE IN connector. It also has the SD component SDI signal output connector (four channels) and a loop-through output (one channel) of the SD SYNC signal input.
It also has the cable equalizer and the clock recovery circuit of the HD SDI signal.

1-2. Optional Fixtures

Description	P/N	Remarks
Extension board EX-331	J-6185-960-A	To extend RC-80/80A board
IC extractor	J-6035-070-A	To extract IC900/RC-80/80A board (Usable for PLCC IC with pins 20 to 124)

1-3. Circuit Protection Device

The RC-80/80A board is equipped with two positive thermistors THP1 and THP2 for +5 V and −5 V respectively. This device limits a current by steeply increasing the inner resistance when it rises to a certain temperature due to overcurrent or high ambient temperature. The device being activated, the indicator (D1, D3) beside it will go out at the same time. If activated, turn off the power and check the unit. After the cause is eliminated and the device cools off, turn on the power again. If there is no trouble, the unit will operate normally.

1-4. Note on Replacement of Electrical Parts

The RC-80/80A and DIF-96/96A boards are equipped with a high-frequency circuit (1.5 GHz) in the shielding case on each board. So every electrical part contained in the shielding case can not be replaced. If the high-frequency circuit in the RC-80/80A board fails, please order the HKPF-525AV/525V through the sales route for replacement. If that in the DIF-96/96A board fails, replace the DIF-96/96A board itself.

1-5. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Harness

Harnesses with no part number are not registered as spare parts.
In need of repair, get components shown in the list and repair using them.

Section 2
Electrical Alignment

2-1. Preparation

2-1-1. Equipment Required

Measuring Equipment

- Frequency Counter
- Digital Oscilloscope (Band width 300 MHz or more)
  Tektronix TDS460A or equivalent

Peripheral Equipment

- Sony digital video interface unit
  Either of PFV-HD50A and HD300

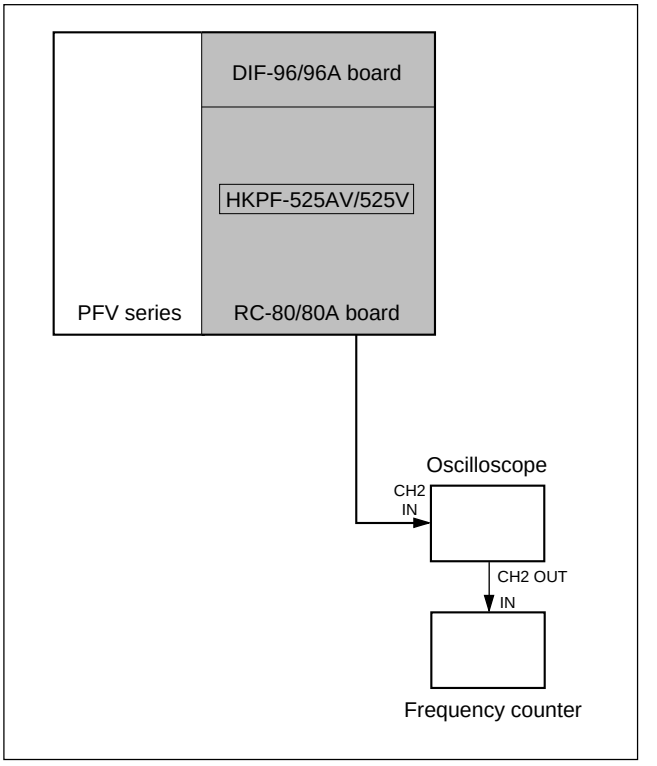
Fixture

- Extension board EX-331 (Sony P/N : J-6185-960-A)

2-1-2. Notes on Adjustment

- All measuring equipment shall be completely calibrated.
- Connect each equipment properly.
  (Refe to Section 2-1-3)
- Initial settings before beginning adjustment shall be complete.
- Before the adjustment, be sure to warm the unit up for about ten minutes.
- Turn off the power of the digital video interface unit before extending the RC-80/80A board.
- In this manual, the RC-80 and the RC-80A boards are described simply as RC board.

2-1-3. Connection



2-2. Free-run Frequency Adjustment

Preparation

- COR1 (M-6)/RC board → FREE RUN
- Extend the RC board.

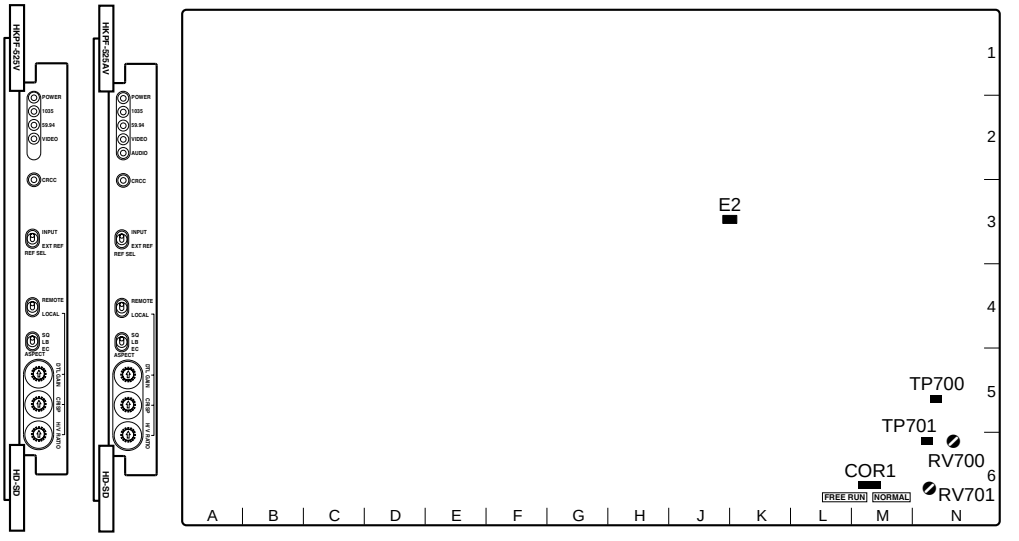
Adjustment Procedures

1. SD1 Frequency Adjustment
   Test Point: TP700 (N-5)/RC board
   GND: E2 (K-3)/RC board
   Adjustment Point: ⊘RV700 (N-6)/RC board
   Specifications: 27.00 ±0.05 MHz

2. SD2 Frequency Adjustment
   Test Point: TP701 (N-6)/RC board
   GND: E2 (K-3)/RC board
   Adjustment Point: ⊘RV701 (N-6)/RC board
   Specifications: 27.00 ±0.05 MHz

Setting after Adjustment

Be sure to return COR1/RC board to NORMAL.

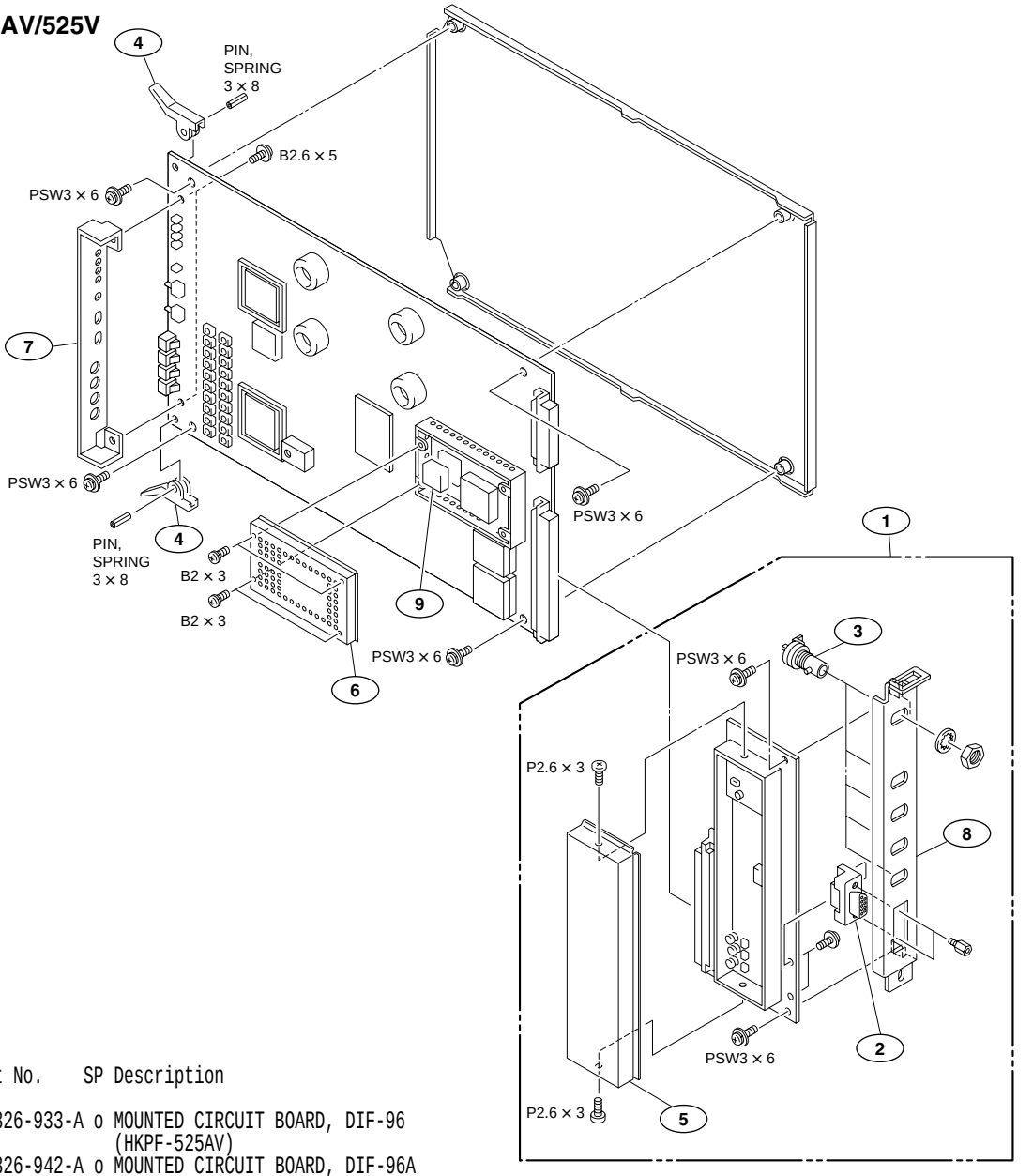


RC-80/80A board (Side A and panel side)

Section 3
Spare Parts

3-1. Exploded View

HKPF-525AV/525V



No.	Part No.	SP	Description
1	A-8326-933-A	o	MOUNTED CIRCUIT BOARD, DIF-96 (HKPF-525AV)
	A-8326-942-A	o	MOUNTED CIRCUIT BOARD, DIF-96A (HKPF-525V)
2	1-563-770-11	o	CONNECTOR 9P D-SUB, FEMALE "REMOTE IN"
3	1-764-273-11	s	CONNECTOR, BNC "DIGITAL IN""DIGITAL OUT"
4	2-182-909-03	o	LEVER, PC BOARD
5	3-608-261-01	o	COVER, SHIELD CASE(1)
6	3-608-265-01	o	COVER, SHIELD CASE(B)
7	3-629-333-01	o	PANEL (525AV/V), FRONT
8	3-629-334-01	o	PANEL (525AV/V), CONNECTOR
9	3-694-127-01	o	SHEET (L), VENTILATION
	7-621-259-12	s	SCREW +P 2.6X3
	7-621-770-87	s	SCREW +B 2.6X5
	7-621-772-08	s	SCREW +B 2X3
	7-626-320-11	s	PIN, SPRING 3X8
	7-682-947-01	s	SCREW +PSW 3X6

3-2. Electrical Parts List

DIF-96/96A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	3-629-334-01	o	PANEL(525AV/V),CONNECTOR
2pcs	7-682-546-04	s	SCREW +B3X5
2pcs	7-682-947-01	s	SCREW +PSW 3X6
2pcs	7-685-547-14	s	SCREW +BTP 3X10(EP-FE/CU,NI,CR
C1	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C2	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C3	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C4	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C5	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C6	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C7	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C8	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C9	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C10	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C11	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C12	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C13	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C14	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C15	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C16	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C17	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C18	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C19	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C20	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C21	1-163-275-11	s	CAPACITOR CERAMIC 1000PF/50V
C22	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C23	1-163-275-11	s	CAPACITOR CERAMIC 1000PF/50V
C24	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C25	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C26	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C27	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C28	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C29	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C30	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C31	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C32	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C33	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C34	1-104-913-11	s	CAPACITOR,TANTALUM 10MF/16V
C35	1-104-913-11	s	CAPACITOR,TANTALUM 10MF/16V
C36	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C37	1-104-914-11	s	CAPACITOR,TANTALUM 22MF/16V
C38	1-104-913-11	s	CAPACITOR,TANTALUM 10MF/16V
C39	1-104-913-11	s	CAPACITOR,TANTALUM 10MF/16V
C40	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
CN1	1-563-341-11	s	CONNECTOR HOUSING
CN4	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN5	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN6	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN7	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN8	1-563-770-11	o	SOCKET,D-SUB CONNECTOR 9P
CN9	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN10	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN11	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
FL1	1-239-896-12	s	FILTER, EMI (SMD)
FL2	1-239-896-12	s	FILTER, EMI (SMD)
FL3	1-239-896-12	s	FILTER, EMI (SMD)
FL4	1-239-896-12	s	FILTER, EMI (SMD)
FL5	1-239-896-12	s	FILTER, EMI (SMD)

(DIF-96/96A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
FL6	1-239-896-12	s	FILTER, EMI (SMD)
FL7	1-239-896-12	s	FILTER, EMI (SMD)
FL8	1-233-661-11	s	FILTER, BAND PASS [for HKPF-525AV]
FL9	1-233-661-11	s	FILTER, BAND PASS [for HKPF-525AV]
IC1	8-759-466-22	s	IC MC10EL52 (DR2) [for HKPF-525AV]
IC2	8-759-367-24	s	IC MC10EL11DR2 [for HKPF-525AV]
IC3	8-759-367-25	s	IC MC10EL16DR2
IC4	8-759-082-89	s	IC UPC2708T-E3 [for HKPF-525AV]
IC5	8-759-327-36	s	IC UPC2712T-E3
IC6	8-759-367-29	s	IC MC10EL07DR2 [for HKPF-525AV]
IC7	8-759-367-24	s	IC MC10EL11DR2 [for HKPF-525AV]
L1	1-424-643-11	s	COIL, CHOKE 10UH
L2	1-424-643-11	s	COIL, CHOKE 10UH
L3	1-424-643-11	s	COIL, CHOKE 10UH
L4	1-410-800-31	s	CHIP INDUCTOR 0.027UH (3225)
R1	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R2	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R6	1-216-624-11	s	RESISTOR,CHIP 75 1/10W(2012)
R15	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R16	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R17	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R18	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R19	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R20	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R21	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R22	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R23	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R24	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R25	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R26	1-216-638-11	s	RESISTOR,CHIP 300 1/10W (2012)
R27	1-216-638-11	s	RESISTOR,CHIP 300 1/10W (2012)
R28	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R29	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R30	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R31	1-216-620-11	s	RESISTOR CHIP 51 1/10W (2012)
R32	1-218-659-11	s	RESISTOR,CHIP 43 1/16W (1608)
R33	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R34	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R35	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
S1	1-570-610-11	s	SWITCH,TOGGLE

RC-80/80A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	3-629-333-01	o	PANEL(AV/V),FRONT
2pcs	2-182-909-01	o	LEVER,PC BOARD
1pc	3-608-265-01	o	COVER,SHIELD CASE(B)
8pcs	3-621-124-00	o	LINING
1pc	3-629-336-01	o	SHEET,BLIND [for HKPF-525V]
1pc	3-694-127-01	o	SHEET(L),VENTILATION
2pcs	7-621-770-87	s	SCREW +B2.6X5
4pcs	7-621-772-08	s	SCREW +B2X3
2pcs	7-626-320-11	s	SPRING PIN,3X8 (STEEL)
4pcs	7-682-947-01	s	SCREW +PSW 3X6
1pc	1-533-223-11	s	CLIP,FUSE
1pc	1-533-223-11	s	CLIP,FUSE
1pc	1-563-859-11	s	RECEPTACLE,CONNECTOR 2P
C1	1-128-397-21	s	CAPACITOR ELECT 100MF/16V CHIP
C2	1-128-397-21	s	CAPACITOR ELECT 100MF/16V CHIP
C3	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C4	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C9	1-128-397-21	s	CAPACITOR ELECT 100MF/16V CHIP
C10	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C13	1-126-390-11	s	CAPACITOR ELECT 22MF/6.3V(105)
C15	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C16	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C19	1-128-397-21	s	CAPACITOR ELECT 100MF/16V CHIP
C20	1-107-689-21	s	CAPACITOR,TANTALUM 1MF/35V
C21	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C22	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C23	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C24	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C25	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C26	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C27	1-135-145-11	s	CAPACITOR TANTALUM 0.47MF/35V
C28	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C29	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C30	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C31	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C32	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C33	1-107-689-21	s	CAPACITOR,TANTALUM 1MF/35V
C34	1-164-690-11	s	CAPACITOR ,CERAMIC 2200PF CH
C35	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C36	1-113-994-11	s	CAPACITOR TANTALUM 6.8MF/16V
C37	1-135-211-11	s	CAPACITOR TANTAL 6.8MF/6.3V
C38	1-135-211-11	s	CAPACITOR TANTAL 6.8MF/6.3V
C39	1-113-994-11	s	CAPACITOR TANTALUM 6.8MF/16V
C40	1-135-211-11	s	CAPACITOR TANTAL 6.8MF/6.3V
C41	1-128-397-21	s	CAPACITOR ELECT 100MF/16V CHIP
C42	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C43	1-135-145-11	s	CAPACITOR TANTALUM 0.47MF/35V
C44	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C45	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C46	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C47	1-128-397-21	s	CAPACITOR ELECT 100MF/16V CHIP
C48	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C49	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C50	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C51	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C52	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C53	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C54	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V

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Ref. No. or Q'ty	Part No.	SP	Description
C55	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C56	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C57	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C58	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C59	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C60	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C61	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C62	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C63	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C64	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C65	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C66	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C67	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C68	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C69	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C300	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C301	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C302	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C303	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C304	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C305	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C306	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C307	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C308	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C309	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C310	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C311	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C312	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C313	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C314	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C315	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C316	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C317	1-126-393-11	s	CAPACITOR ELECT 33MF/10V(CHIP)
C318	1-126-393-11	s	CAPACITOR ELECT 33MF/10V(CHIP)
C319	1-126-393-11	s	CAPACITOR ELECT 33MF/10V(CHIP)
C320	1-126-393-11	s	CAPACITOR ELECT 33MF/10V(CHIP)
C321	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C322	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C323	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C324	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C325	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C326	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C327	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C328	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C329	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C330	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C331	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C332	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C333	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C334	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C335	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C336	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C337	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C400	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C401	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C402	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C403	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C404	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C405	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C406	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C407	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C408	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C409	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C410	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C411	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C412	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C415	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C416	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C417	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C418	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C419	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C420	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C421	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C422	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C501	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C502	1-163-237-11	s	CAPACITOR CERAMIC 27PF/50V
C503	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C504	1-163-227-11	s	CAPACITOR CERAMIC 10PF/50V(CH)
C505	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C506	1-163-257-11	s	CAPACITOR CERAMIC 180PF/50V
C507	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C510	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C511	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C512	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C513	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C514	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C515	1-130-493-00	s	CAPACITOR,FILM 0.068MF/50V PET
C516	1-113-682-11	s	CAPACITOR,TANTALUM 33MF/10V
C517	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C518	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C519	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C520	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C521	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C522	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C523	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C524	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C525	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C526	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C527	1-163-009-11	s	CAPACITOR,CERAMIC 1000PF/50V
C528	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C529	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C530	1-163-275-11	s	CAPACITOR CERAMIC 1000PF/50V
C531	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C532	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C533	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C534	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C535	1-163-241-11	s	CAPACITOR CERAMIC 39PF/50(2012
C536	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C537	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C538	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C539	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C540	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C541	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C542	1-110-569-11	s	CAPACITOR,TANTALUM 47MF/6.3V
C543	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V

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Ref. No. or Q'ty	Part No.	SP	Description
C544	1-163-227-11	s	CAPACITOR CERAMIC 10PF/50V(CH)
C600	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C601	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C602	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C603	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C604	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C605	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C606	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C607	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C608	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C609	1-104-915-11	s	CAPACITOR,CHIP 2.2MF/20V [for HKPF-525AV]
C610	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C611	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C612	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C613	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C614	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C615	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V [for HKPF-525AV]
C616	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C617	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C618	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C619	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C620	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C621	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C622	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C623	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C624	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C625	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C626	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C627	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C700	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C701	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C702	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C703	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C704	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C705	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C706	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C707	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C708	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C709	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C710	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C711	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C712	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C713	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C714	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C715	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C716	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C717	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C718	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C719	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C720	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C721	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C722	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C723	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C724	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C725	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C726	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C727	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C728	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C729	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C730	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C731	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C732	1-163-227-11	s	CAPACITOR CERAMIC 10PF/50V(CH)
C733	1-163-227-11	s	CAPACITOR CERAMIC 10PF/50V(CH)
C734	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C735	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C736	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C737	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C738	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C739	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C740	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C741	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C742	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C743	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C744	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C745	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C746	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C747	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C748	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C749	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C754	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C755	1-131-353-00	s	CAPACITOR,TANTALUME 10MF/35V
C756	1-131-353-00	s	CAPACITOR,TANTALUME 10MF/35V
C900	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C901	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C902	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C903	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C904	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C905	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C906	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C907	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C908	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C909	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C910	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C911	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C912	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C913	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C914	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C915	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C916	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C917	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C918	1-104-912-11	s	CAPACITOR TANTALUM 3.3MF/16V
C919	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C920	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C921	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C924	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C925	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C926	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C927	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C928	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C929	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C930	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C931	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C932	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C933	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C934	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C935	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C936	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C937	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C938	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C939	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C940	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C941	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C942	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C943	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1001	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1002	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1003	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1004	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1005	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1006	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
CN1	1-569-465-11	o	PIN, DIN CONNECTOR (DIP) 48P
CN2	1-568-144-11	o	PIN, DIN CONNECTOR (DIP) 96P
CN500	1-506-471-11	o	PIN,CONNECTOR (6P)
COR1	1-564-948-21	o	PIN,CONNECTOR 3P
D1	8-719-987-43	s	LED CL-150PG-CD
D2	8-719-987-43	s	LED CL-150PG-CD
D3	8-719-987-43	s	LED CL-150PG-CD
D5	8-719-157-23	s	DIODE RD4.7M-B
D6	8-719-801-78	s	DIODE 1SS184
D7	8-719-801-78	s	DIODE 1SS184
D8	8-719-801-78	s	DIODE 1SS184
D10	8-719-800-76	s	DIODE 1SS226
D11	8-719-800-76	s	DIODE 1SS226
D12	8-719-023-53	s	DIODE EA30QS04-F
D13	8-719-023-53	s	DIODE EA30QS04-F
D14	8-719-023-53	s	DIODE EA30QS04-F
D15	8-719-023-53	s	DIODE EA30QS04-F
D16	8-719-157-11	s	DIODE RD3.3M-B
D501	8-719-800-76	s	DIODE 1SS226
D502	8-719-104-34	s	DIODE 1S2836
D1000	8-719-801-78	s	DIODE 1SS184
D1001	8-719-801-78	s	DIODE 1SS184
D1002	8-719-801-78	s	DIODE 1SS184
D1003	8-719-801-78	s	DIODE 1SS184
D1004	8-719-801-78	s	DIODE 1SS184
D1005	8-719-801-78	s	DIODE 1SS184
D1006	8-719-801-78	s	DIODE 1SS184
D1007	8-719-801-78	s	DIODE 1SS184
D1008	8-719-801-78	s	DIODE 1SS184
D1009	8-719-801-78	s	DIODE 1SS184
D1010	8-719-801-78	s	DIODE 1SS184

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Ref. No. or Q'ty	Part No.	SP	Description
D1011	8-719-801-78	s	DIODE 1SS184
D1012	8-719-801-78	s	DIODE 1SS184
D1013	8-719-801-78	s	DIODE 1SS184
D1014	8-719-801-78	s	DIODE 1SS184
D1015	8-719-801-78	s	DIODE 1SS184
D1016	8-719-801-78	s	DIODE 1SS184
D1017	8-719-801-78	s	DIODE 1SS184
D1018	8-719-801-78	s	DIODE 1SS184
D1019	8-719-801-78	s	DIODE 1SS184
D1020	8-719-801-78	s	DIODE 1SS184
D1021	8-719-801-78	s	DIODE 1SS184
D1022	8-719-801-78	s	DIODE 1SS184
D1023	8-719-801-78	s	DIODE 1SS184
D1024	8-719-801-78	s	DIODE 1SS184
D1025	8-719-801-78	s	DIODE 1SS184
D1026	8-719-801-78	s	DIODE 1SS184
D1027	8-719-801-78	s	DIODE 1SS184
D1028	8-719-974-41	s	LED HLMP-6500-010
D1029	8-719-974-41	s	LED HLMP-6500-010
D1030	8-719-801-78	s	DIODE 1SS184
D1031	8-719-801-78	s	DIODE 1SS184
D1032	8-719-974-41	s	LED HLMP-6500-010
D1033	8-719-801-78	s	DIODE 1SS184
D1034	8-719-801-78	s	DIODE 1SS184
D1035	8-719-974-41	s	LED HLMP-6500-010
D1036	8-719-974-39	s	LED HLMP-6300-010
D1037	8-719-801-78	s	DIODE 1SS184
D1038	8-719-801-78	s	DIODE 1SS184
D1039	8-719-801-78	s	DIODE 1SS184
D1040	8-719-801-78	s	DIODE 1SS184
D1041	8-719-801-78	s	DIODE 1SS184
D1042	8-719-801-78	s	DIODE 1SS184
D1043	8-719-801-78	s	DIODE 1SS184
D1044	8-719-801-78	s	DIODE 1SS184
D1045	8-719-801-78	s	DIODE 1SS184
D1046	8-719-801-78	s	DIODE 1SS184
D1047	8-719-801-78	s	DIODE 1SS184
D1048	8-719-801-78	s	DIODE 1SS184
D1049	8-719-801-78	s	DIODE 1SS184
D1050	8-719-801-78	s	DIODE 1SS184
D1051	8-719-801-78	s	DIODE 1SS184
D1052	8-719-801-78	s	DIODE 1SS184
D1053	8-719-974-41	s	LED HLMP-6500-010 [for HKPF-525AV]
D1054	8-719-800-76	s	DIODE 1SS226
D1055	8-719-987-43	s	LED CL-150PG-CD
D1056	8-719-987-43	s	LED CL-150PG-CD
D1057	8-719-987-43	s	LED CL-150PG-CD
D1058	8-719-987-43	s	LED CL-150PG-CD
F1 ⚠	1-576-230-11	s	FUSE (H.B.C.)
FB400	1-469-094-11	s	FERRITE, EMI (SMD)
FB401	1-469-094-11	s	FERRITE, EMI (SMD)
FB402	1-469-094-11	s	FERRITE, EMI (SMD)
IC3	8-759-274-66	s	IC LM4040BIM3-5.0
IC4	8-759-185-42	s	IC LM4040AIM3-2.5
IC5	8-759-937-36	s	IC TL1451ACNS
IC6	8-759-937-36	s	IC TL1451ACNS
IC7	8-759-906-53	s	IC TL062CPS

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Ref. No. or Q'ty	Part No.	SP	Description
IC300	8-759-389-48	s	IC 74LCX16374MTDX
IC301	8-759-389-48	s	IC 74LCX16374MTDX
IC303	8-759-559-40	s	IC MB811643242A-100FN
IC400	8-759-559-40	s	IC MB811643242A-100FN
IC401	8-759-652-59	s	IC EPFQC240AA
IC402	8-759-422-80	s	IC MN47V77ST1 [for HKPF-525AV]
IC403	8-759-559-40	s	IC MB811643242A-100FN
IC404	8-759-695-75	s	IC EPC2LC-PU102A-IC355-V1.00
IC500	8-759-970-59	s	IC TLC272CPS
IC501	8-759-344-12	s	IC GS4981CTA
IC503	8-759-069-36	s	IC MC74HC4046AF
IC504	8-759-011-65	s	IC MC74HC4053F
IC505	8-759-970-59	s	IC TLC272CPS
IC506	8-759-970-59	s	IC TLC272CPS
IC507	8-759-471-91	s	IC 74VHC04MTCX
IC508	8-759-472-39	s	IC 74VHC244MTCX
IC509	8-759-472-39	s	IC 74VHC244MTCX
IC510	8-759-472-39	s	IC 74VHC244MTCX [for HKPF-525AV]
IC511	8-759-663-15	s	IC 74VHCT244AMTCX [for HKPF-525AV]
IC600	8-759-175-57	s	IC CXD8820AR [for HKPF-525AV]
IC601	8-759-175-57	s	IC CXD8820AR [for HKPF-525AV]
IC602	8-759-989-91	s	IC TL7705ACPS [for HKPF-525AV]
IC603	8-759-519-12	s	IC CXD8281Q [for HKPF-525AV]
IC604	8-759-662-36	s	IC 74VHCT574AMTCX
IC605	8-759-662-36	s	IC 74VHCT574AMTCX
IC606	8-759-662-36	s	IC 74VHCT574AMTCX
IC607	8-759-662-36	s	IC 74VHCT574AMTCX
IC608	8-759-058-64	s	IC TC7S32FU-TE85R
IC609	8-759-172-73	s	IC CXD8385Q
IC610	8-759-172-73	s	IC CXD8385Q
IC700	8-759-344-84	s	IC CXD8953Q
IC701	8-759-344-84	s	IC CXD8953Q
IC702	8-752-078-32	s	IC CXB1341R
IC703	8-752-078-32	s	IC CXB1341R
IC704	8-759-082-57	s	IC TC7W04FU
IC900	8-759-696-45	o	IC 29F040-HKPF525AV-V1.00
IC901	8-759-532-02	s	IC CY62256LL-70ZC-T2
IC902	8-759-578-68	s	IC SN74LVCC4245APWR
IC904	8-759-524-07	s	IC TC74VHC138FT(EL)
IC906	8-759-429-23	s	IC TL16C550CPT
IC908	8-759-524-07	s	IC TC74VHC138FT(EL)
IC909	8-759-083-94	s	IC TC7W74FU
IC911	8-759-054-56	s	IC SN75179BPS
IC913	8-759-472-39	s	IC 74VHC244MTCX
IC920	8-759-523-02	s	IC TC74HC4053AFT(EL)
IC921	8-759-523-02	s	IC TC74HC4053AFT(EL)
IC922	8-759-523-02	s	IC TC74HC4053AFT(EL)
IC923	8-759-369-92	s	IC M51958AFP (600D)
IC924	8-759-399-56	s	IC STK12C68-S45
IC925	8-759-082-57	s	IC TC7W04FU
IC926	8-759-082-57	s	IC TC7W04FU
IC928	8-759-296-67	s	IC HD6417032F20
IC930	8-759-471-96	s	IC 74VHC08MTCX
IC932	8-759-083-94	s	IC TC7W74FU
IC1009	8-759-082-57	s	IC TC7W04FU
IC1010	8-759-058-62	s	IC TC7S08FU-TE85R
IC1013	8-759-082-57	s	IC TC7W04FU
IC1016	8-759-082-57	s	IC TC7W04FU
IC1019	8-759-524-07	s	IC TC74VHC138FT(EL)

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Ref. No. or Q'ty	Part No.	SP	Description
IC1020	8-759-524-07	s	IC TC74VHC138FT(EL)
IC1021	8-759-082-57	s	IC TC7W04FU
IC1024	8-759-996-82	s	IC MSM82C55A-2GS
IC1025	8-759-996-82	s	IC MSM82C55A-2GS
IC1026	8-759-996-82	s	IC MSM82C55A-2GS
IC1027	8-759-996-82	s	IC MSM82C55A-2GS
IS900	1-540-151-21	s	SOCKET, IC
L1	1-414-441-11	s	INDUCTOR (POWER) 15UH
L2	1-414-441-11	s	INDUCTOR (POWER) 15UH
L5	1-414-441-11	s	INDUCTOR (POWER) 15UH
L6	1-414-529-21	s	INDUCTOR (POWER)
L7	1-414-441-11	s	INDUCTOR (POWER) 15UH
L8	1-414-529-21	s	INDUCTOR (POWER)
L9	1-403-684-11	s	COIL, CHOKE
L10	1-403-684-11	s	COIL, CHOKE
L11	1-403-684-11	s	COIL, CHOKE
L12	1-403-684-11	s	COIL, CHOKE
L13	1-409-914-11	s	COIL, CHOKE 10UH
L14	1-409-914-11	s	COIL, CHOKE 10UH
L15	1-409-914-11	s	COIL, CHOKE 10UH
L16	1-409-914-11	s	COIL, CHOKE 10UH
L500	1-412-030-11	s	INDUCTOR,CHIP 22UH (3225)
L501	1-412-030-11	s	INDUCTOR,CHIP 22UH (3225)
L502	1-412-030-11	s	INDUCTOR,CHIP 22UH (3225)
L503	1-412-030-11	s	INDUCTOR,CHIP 22UH (3225)
L504	1-412-030-11	s	INDUCTOR,CHIP 22UH (3225)
L505	1-412-030-11	s	INDUCTOR,CHIP 22UH (3225)
L506	1-412-028-11	s	INDUCTOR,CHIP 4.7UH (3225)
L508	1-412-028-11	s	INDUCTOR,CHIP 4.7UH (3225)
L900	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L901	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L902	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L903	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L904	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L905	1-412-027-11	s	INDUCTOR,CHIP 2.2UH (3225)
L906	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L907	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L908	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L1000	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L1001	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L1002	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
L1003	1-410-988-11	s	CHIP INDUCTOR 0.39UH (2012)
Q1	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q4	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q5	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q9	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q10	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q11	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q12	8-729-101-07	s	TRANSISTOR 2SB798
Q13	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q14	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q15	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q16	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q17	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q18	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q19	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q20	8-729-216-22	s	TRANSISTOR 2SA1162-G

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Ref. No. or Q'ty	Part No.	SP	Description
Q21	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q22	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q23	8-729-032-74	s	TRANSISTOR 2SA1615-Z-K
Q24	8-729-105-19	s	TRANSISTOR 2SC3518L
Q25	8-729-032-74	s	TRANSISTOR 2SA1615-Z-K
Q26	8-729-032-74	s	TRANSISTOR 2SA1615-Z-K
Q27	8-729-027-36	s	TRANSISTOR DTA143XKA-T146
Q28	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q500	8-729-117-32	s	TRANSISTOR 2SC4177
Q502	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q503	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q704	8-729-145-13	s	TRANSISTOR 2SC3356-(R25)
Q705	8-729-145-13	s	TRANSISTOR 2SC3356-(R25)
Q706	8-729-145-13	s	TRANSISTOR 2SC3356-(R25)
Q707	8-729-145-13	s	TRANSISTOR 2SC3356-(R25)
Q901	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q902	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q1000	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q1001	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q1002	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q1003	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q1004	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q1005	8-729-027-57	s	TRANSISTOR DTC143XKA-T146 [for HKPF-525AV]
R5	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R6	1-216-083-00	s	RESISTOR CHIP 27K 1/10W(2012)
R7	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R8	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R9	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R10	1-216-075-00	s	RESISTOR CHIP 12K 1/10W(2012)
R11	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R12	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R13	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R14	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R20	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R21	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R22	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R23	1-216-071-00	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R24	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R26	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R27	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R30	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R31	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R32	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R33	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R35	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R38	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R39	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R40	1-216-079-00	s	RESISTOR CHIP 18K 1/10W(2012)
R43	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R44	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R45	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R48	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R49	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R50	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R51	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R52	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R53	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R54	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R55	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R56	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R57	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R58	1-216-067-00	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R59	1-216-067-00	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R60	1-216-067-00	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R61	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R62	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R63	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R64	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R65	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R66	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R67	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R68	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R69	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R70	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R71	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R72	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R73	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R74	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R75	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R76	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R77	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R78	1-216-067-00	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R79	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R80	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R81	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R82	1-216-067-00	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R83	1-216-067-00	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R84	1-216-067-00	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R85	1-216-085-00	s	RESISTOR CHIP 33K 1/10W(2012)
R86	1-216-091-00	s	RESISTOR CHIP 56K 1/10W(2012)
R87	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R88	1-216-105-91	s	RESISTOR,CHIP 220K 1/10W(2125)
R89	1-216-097-00	s	RESISTOR CHIP 100K 1/10W(2012)
R90	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R91	1-216-097-00	s	RESISTOR CHIP 100K 1/10W(2012)
R92	1-216-097-00	s	RESISTOR CHIP 100K 1/10W(2012)
R93	1-216-085-00	s	RESISTOR CHIP 33K 1/10W(2012)
R94	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R95	1-216-093-00	s	RESISTOR, CHIP 68K 1/10W(2012)
R96	1-216-093-00	s	RESISTOR, CHIP 68K 1/10W(2012)
R97	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R98	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R99	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R100	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R101	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R102	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R103	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R104	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R105	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R106	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R107	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R108	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R109	1-216-037-00	s	RESISTOR,CHIP 330 1/10W(2012)
R110	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R111	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R112	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)

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Ref. No. or Q'ty	Part No.	SP	Description
R113	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R114	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R115	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R116	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R117	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R118	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R119	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R120	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R121	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R300	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R301	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R302	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R303	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R304	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R305	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R306	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R307	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R308	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R309	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R310	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R311	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R312	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R313	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R314	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R315	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
R316	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R317	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R318	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R319	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R320	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R321	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R322	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R328	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R329	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R330	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R331	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R335	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R336	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R337	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R338	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R339	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R340	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R341	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R342	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R343	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R344	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R346	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R347	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R348	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R349	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R350	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
R351	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
R352	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
R353	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
R354	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
R400	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R401	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R402	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R403	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R404	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R405	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R406	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R407	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R408	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012) [for HKPF-525AV]
R409	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012) [for HKPF-525AV]
R410	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012) [for HKPF-525AV]
R411	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012) [for HKPF-525AV]
R412	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012) [for HKPF-525AV]
R413	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
R414	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R415	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R416	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R417	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R418	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R419	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R420	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R421	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R500	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R501	1-216-061-00	s	RESISTOR CHIP 3.3K 1/10W(2012)
R502	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R503	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R509	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R510	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R511	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R512	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R514	1-216-117-00	s	RESISTOR,CHIP 680K 1/10W(2012)
R515	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R516	1-216-295-00	s	CONDUCTOR, CHIP (2012) [for HKPF-525AV]
R519	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R520	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R521	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R522	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R523	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R524	1-216-089-00	s	RESISTOR CHIP 47K 1/10W(2012)
R525	1-216-089-00	s	RESISTOR CHIP 47K 1/10W(2012)
R526	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R527	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R528	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R529	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R530	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R531	1-216-085-00	s	RESISTOR CHIP 33K 1/10W(2012)
R532	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R534	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R535	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R536	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R537	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R538	1-216-091-00	s	RESISTOR CHIP 56K 1/10W(2012)
R539	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R540	1-216-089-00	s	RESISTOR CHIP 47K 1/10W(2012)
R541	1-216-089-00	s	RESISTOR CHIP 47K 1/10W(2012)
R542	1-216-089-00	s	RESISTOR CHIP 47K 1/10W(2012)
R546	1-216-295-00	s	CONDUCTOR, CHIP (2012) [for HKPF-525V]

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Ref. No. or Q'ty	Part No.	SP	Description
R558	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012) [for HKPF-525AV]
R559	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012) [for HKPF-525AV]
R560	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R565	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R566	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R567	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R568	1-216-053-00	s	RESISTOR CHIP 1.5K 1/10W(2012)
R569	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R570	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R600	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012) [for HKPF-525AV]
R601	1-216-295-00	s	CONDUCTOR, CHIP (2012) [for HKPF-525AV]
R602	1-216-295-00	s	CONDUCTOR, CHIP (2012) [for HKPF-525AV]
R603	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012) [for HKPF-525AV]
R604	1-216-295-00	s	CONDUCTOR, CHIP (2012) [for HKPF-525AV]
R605	1-216-295-00	s	CONDUCTOR, CHIP (2012) [for HKPF-525AV]
R607	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012) [for HKPF-525AV]
R609	1-216-295-00	s	CONDUCTOR, CHIP (2012) [for HKPF-525AV]
R610	1-216-295-00	s	CONDUCTOR, CHIP (2012) [for HKPF-525AV]
R611	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012) [for HKPF-525AV]
R612	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R614	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R615	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R616	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R617	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R618	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R620	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R621	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R622	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R623	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R624	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R629	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012) [for HKPF-525AV]
R630	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012) [for HKPF-525AV]
R631	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R632	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R633	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R634	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012) [for HKPF-525AV]
R635	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R636	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R637	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R638	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R639	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R640	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R641	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R700	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R701	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R702	1-216-079-00	s	RESISTOR CHIP 18K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R703	1-216-079-00	s	RESISTOR CHIP 18K 1/10W(2012)
R704	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R705	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R706	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R707	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R708	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R709	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R713	1-216-079-00	s	RESISTOR CHIP 18K 1/10W(2012)
R714	1-216-079-00	s	RESISTOR CHIP 18K 1/10W(2012)
R716	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R717	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R719	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R720	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R721	1-216-053-00	s	RESISTOR CHIP 1.5K 1/10W(2012)
R722	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R723	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R724	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R725	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R726	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R728	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R729	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R730	1-216-053-00	s	RESISTOR CHIP 1.5K 1/10W(2012)
R731	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R732	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R733	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R734	1-216-295-00	s	CONDUCTOR, CHIP (2012)
R735	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R736	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R737	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R738	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R739	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R740	1-216-047-91	s	RESISTOR, CHIP 820 1/10W(2125)
R741	1-216-047-91	s	RESISTOR, CHIP 820 1/10W(2125)
R742	1-216-635-11	s	RESISTOR,CHIP 220 1/10W (2012)
R743	1-216-635-11	s	RESISTOR,CHIP 220 1/10W (2012)
R744	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R745	1-216-635-11	s	RESISTOR,CHIP 220 1/10W (2012)
R746	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R747	1-216-635-11	s	RESISTOR,CHIP 220 1/10W (2012)
R748	1-216-022-00	s	RESISTOR,CHIP 75 1/10W (2125)
R749	1-216-613-11	s	RESISTOR,CHIP 27 1/10W (2012)
R750	1-216-022-00	s	RESISTOR,CHIP 75 1/10W (2125)
R751	1-216-613-11	s	RESISTOR,CHIP 27 1/10W (2021)
R752	1-216-022-00	s	RESISTOR,CHIP 75 1/10W (2125)
R753	1-216-613-11	s	RESISTOR,CHIP 27 1/10W (2012)
R754	1-216-625-11	s	RESISTOR,CHIP 82 1/10W
R755	1-216-022-00	s	RESISTOR,CHIP 75 1/10W (2125)
R756	1-216-613-11	s	RESISTOR,CHIP 27 1/10W (2012)
R757	1-216-625-11	s	RESISTOR,CHIP 82 1/10W
R766	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R767	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R768	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R769	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R770	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R771	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R772	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R773	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R774	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R775	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R776	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R780	1-216-611-11	s	RESISTOR, CHIP 22 1/10W(2012)
R781	1-216-611-11	s	RESISTOR, CHIP 22 1/10W(2012)
R782	1-216-611-11	s	RESISTOR, CHIP 22 1/10W(2012)
R783	1-216-611-11	s	RESISTOR, CHIP 22 1/10W(2012)
R784	1-216-295-00	s	CONDUCTOR, CHIP(2012)
R785	1-216-295-00	s	CONDUCTOR, CHIP(2012)
R786	1-216-295-00	s	CONDUCTOR, CHIP(2012)
R787	1-216-295-00	s	CONDUCTOR, CHIP(2012)
R788	1-216-295-00	s	CONDUCTOR, CHIP(2012)
R789	1-216-295-00	s	CONDUCTOR, CHIP(2012)
R790	1-216-295-00	s	CONDUCTOR, CHIP(2012)
R791	1-216-295-00	s	CONDUCTOR, CHIP(2012)
R902	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R903	1-216-075-00	s	RESISTOR CHIP 12K 1/10W(2012)
R904	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R905	1-216-065-91	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R906	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R907	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R908	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R909	1-216-089-00	s	RESISTOR CHIP 47K 1/10W(2012)
R910	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R911	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R912	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R913	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R914	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R915	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R916	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R917	1-216-049-11	s	RESISTOR, CHIP 1K 1/10W(2012)
R918	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R919	1-216-121-00	s	RESISTOR CHIP 1M 1/10W(2012)
R920	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R921	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R922	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R923	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R924	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R925	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R926	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R927	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R928	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R929	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R934	1-216-097-00	s	RESISTOR CHIP 100K 1/10W(2012)
R937	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R940	1-216-097-00	s	RESISTOR CHIP 100K 1/10W(2012)
R942	1-216-097-00	s	RESISTOR CHIP 100K 1/10W(2012)
R943	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R947	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R1000	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R1003	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012) [for HKPF-525AV]
R1004	1-216-089-00	s	RESISTOR CHIP 47K 1/10W(2012)
R1006	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R1007	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R1008	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R1009	1-216-031-00	s	RESISTOR,CHIP 180 1/10W(2012)
R1010	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R1011	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R1012	1-216-035-00	s	RESISTOR, CHIP 270 1/10W(2012)
R1013	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)

(RC-80/80A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1014	1-216-025-00	s	RESISTOR,CHIP 100 1/10W(2012)
R1015	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R1016	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R1017	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R1018	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
RB300	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB301	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB302	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB303	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB304	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB305	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB306	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB307	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB308	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB309	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB310	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB313	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)
RB314	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB315	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB316	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB317	1-239-416-11	s	NETWORK,RESISTOR 220 (1608)
RB318	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB319	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB320	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB321	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB322	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB323	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB324	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB325	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB326	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB327	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB328	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB329	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB330	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB400	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB401	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)
RB402	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB403	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)
RB406	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB407	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB408	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB409	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB410	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB411	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB412	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB413	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB414	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB415	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB416	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB417	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB418	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB419	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB420	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB421	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB422	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB423	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB424	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB425	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB426	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)

(RC-80/80A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB500	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)
RB501	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB502	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)
RB503	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB504	1-233-936-11	s	RESISTOR,NETWORK 10 (1608)
RB505	1-233-936-11	s	RESISTOR,NETWORK 10 (1608)
RB506	1-233-936-11	s	RESISTOR,NETWORK 10 (1608) [for HKPF-525AV]
RB507	1-233-936-11	s	RESISTOR,NETWORK 10 (1608) [for HKPF-525AV]
RB508	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB509	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB510	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB511	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB600	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525AV]
RB601	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525AV]
RB602	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525AV]
RB603	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525AV]
RB604	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525AV]
RB605	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525AV]
RB606	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525V]
RB607	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525V]
RB608	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525V]
RB609	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525V]
RB610	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525V]
RB611	1-239-412-11	s	NETWORK, RESISTOR 100 (1608) [for HKPF-525V]
RB612	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB613	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB614	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB615	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB700	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB701	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB702	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB703	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB704	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB705	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB706	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB707	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB708	1-239-407-11	s	NETWORK RESISTOR(CHIP) 330
RB709	1-239-407-11	s	NETWORK RESISTOR(CHIP) 330
RB710	1-239-407-11	s	NETWORK RESISTOR(CHIP) 330
RB712	1-239-407-11	s	NETWORK RESISTOR(CHIP) 330
RB713	1-239-407-11	s	NETWORK RESISTOR(CHIP) 330
RB717	1-239-407-11	s	NETWORK RESISTOR(CHIP) 330
RB718	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB719	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB720	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB721	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB900	1-236-907-11	s	RESISTOR BLOCK 100K (1608)

(RC-80/80A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB901	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB902	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB903	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB904	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB905	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB906	1-239-419-11	s	NETWORK RESISTOR 470 (1608)
RB907	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB908	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB909	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB910	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB911	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB912	1-239-419-11	s	NETWORK RESISTOR 470 (1608)
RB918	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB1001	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1006	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1007	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1008	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RV700	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
RV701	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
S1	1-570-711-11	s	SWITCH,SLIDE
S2	1-692-271-31	s	SWITCH, SLIDE
S3	1-572-658-21	s	SWITCH,ROTARY
S4	1-572-658-21	s	SWITCH,ROTARY
S5	1-572-658-21	s	SWITCH,ROTARY
S6	1-572-658-21	s	SWITCH,ROTARY
S9	1-762-217-31	s	SWITCH, SLIDE
S10	1-570-711-11	s	SWITCH,SLIDE
S11	1-570-711-11	s	SWITCH,SLIDE
S12	1-570-711-11	s	SWITCH,SLIDE
S13	1-570-711-11	s	SWITCH,SLIDE
S14	1-570-711-11	s	SWITCH,SLIDE
S15	1-570-711-11	s	SWITCH,SLIDE
S16	1-554-963-21	s	SWITCH, ROTARY (S-1011A)
S17	1-554-963-21	s	SWITCH, ROTARY (S-1011A)
S18	1-762-118-21	s	SWITCH, TOGGLE
S19	1-570-711-11	s	SWITCH,SLIDE
S20	1-570-711-11	s	SWITCH,SLIDE
S21	1-570-711-11	s	SWITCH,SLIDE
S22	1-692-530-11	s	SWITCH,TOGGLE
S23	1-570-711-11	s	SWITCH,SLIDE
S24	1-570-711-11	s	SWITCH,SLIDE
S25	1-572-658-21	s	SWITCH,ROTARY
S26	1-572-658-21	s	SWITCH,ROTARY
S27	1-554-963-21	s	SWITCH, ROTARY (S-1011A)
S28	1-572-658-21	s	SWITCH,ROTARY
S29	1-572-658-21	s	SWITCH,ROTARY
S30	1-572-658-21	s	SWITCH,ROTARY
S31	1-572-658-21	s	SWITCH,ROTARY
S32	1-572-658-21	s	SWITCH,ROTARY
S33	1-572-658-21	s	SWITCH,ROTARY
S34	1-572-658-21	s	SWITCH,ROTARY
S35	1-572-658-21	s	SWITCH,ROTARY
S36	1-572-658-21	s	SWITCH,ROTARY
S37	1-572-658-21	s	SWITCH,ROTARY
S38	1-572-658-21	s	SWITCH,ROTARY
S39	1-572-658-21	s	SWITCH,ROTARY
S40	1-572-658-21	s	SWITCH,ROTARY
S43	1-570-711-11	s	SWITCH,SLIDE

(RC-80/80A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
S44	1-570-711-11	s	SWITCH,SLIDE [for HKPF-525AV]
S45	1-692-530-11	s	SWITCH,TOGGLE
S46	1-570-711-11	s	SWITCH,SLIDE
S47	1-762-217-31	s	SWITCH, SLIDE
S48	1-570-711-11	s	SWITCH,SLIDE
S400	1-572-658-21	s	SWITCH,ROTARY [for HKPF-525AV]
S500	1-572-658-21	s	SWITCH,ROTARY
S501	1-572-658-21	s	SWITCH,ROTARY
S502	1-572-658-21	s	SWITCH,ROTARY
S900	1-692-271-31	s	SWITCH, SLIDE
S904	1-572-005-11	s	SWITCH,TACTIL(REFLOW TYPE)
THP1	⚠ 1-533-817-21	s	FUSE
THP2	⚠ 1-533-817-21	s	FUSE
X500	1-767-066-11	s	OSCILLATOR, VOLTAGE CRYSTAL
X900	1-579-594-11	s	VIBRATOR, CRYSTAL

3-3. Supplied Accessories

Ref. No. or Q'ty		Part No.	SP	Description
1pc	⚠	1-576-230-11	s	FUSE (H.B.C.)
1pc		4-604-764-12	s	BAG (STATIC DAMAGE PROTECT)

3-4. Tools and Fixtures

Part No.	SP	Description
J-6185-960-A	o	EXTENSION BOARD, EX-331
J-6035-070-A	o	EXTRACTION TOOL, IC(CT-2101)

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Section 4
Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.
For semiconductors marked with page numbers in the index, refer to the corresponding pages in this section. However, in some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.
In addition, for semiconductors with ID Nos., refer to the separate CD-ROM titled “Semiconductor Pin Assignments” (Sony Part No. 9-968-546-xx) that allows searching for parts by semiconductor type or ID No.
The semiconductors in the manual or on the CD-ROM are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.
Pin assignments and block diagrams are based on the IC manufacturer’s data book.

本機に使用されている半導体型名の一覧を下記に示します。
索引中，ページが記載されている半導体は，本章の該当ページを参照してください。ただし，互換性のない型名を併記している場合がありますので，部品を交換するときは，Spare Partsの章を参照してください。
また，ID番号が記載されている半導体は，別途発行の “Semiconductor Pin Assignments” CD-ROM版 (ソニー部品番号：9-968-546-xx)を参照してください。
半導体型名またはID番号から検索ができます。
マニュアルまたはCD-ROMに掲載されている半導体は，それぞれの機能を等価的に表わしたものです。
外観やインデックスマークの表示方法が実物と異なる場合があります。
ピン配置およびブロック図はICメーカーのデータブックに従いました。

DIODE — **Page or ID No.**

1S2835-T1 ..... DC001-02
1S2836 ..... DC001-02
1S2837-T1 ..... DC001-03
1SS123-T1 ..... DC001-01
1SS184 ..... DC001-03
1SS226 ..... DC001-01

EA30QS04-F DC002-04
EA30QS04-TE16F2 ..... DC002-04

RD3.3M-B DC001-04
RD3.3M-T1B DC001-04
RD4.7M-B DC001-04
RD4.7M-T1B DC001-04

LED — **Page or ID No.**

CL-150PG-CD LC001-01
CL-150PG-CD-T LC001-01

HLMP-6300-010 ..... LR055-01
HLMP-6500-010 ..... LR055-01

TRANSISTOR — **Page or ID No.**

2SA1162G TC001-01
2SA1213Y-TE12L TC002-01
2SA1610-T1Y34 ..... TC001-01
2SA1610-Y33 ..... TC001-01
2SA1615-Z-E2 ..... TC010-02
2SA1615-Z-K TC010-02
2SA812-T1-M5M6 ..... TC001-01
2SB798-DL TC002-01
2SC1623-L5L6 ..... TC001-02
2SC1623-T1-L5L6 ..... TC001-02
2SC3356-(R25) TC001-02
2SC3356-T1(R25) TC001-02
2SC3518-L TR031-01
2SC3518-ZL-E2 ..... TR031-01
2SC4177-L6 ..... TC001-02
2SC4177-T1L5L6 ..... TC001-02

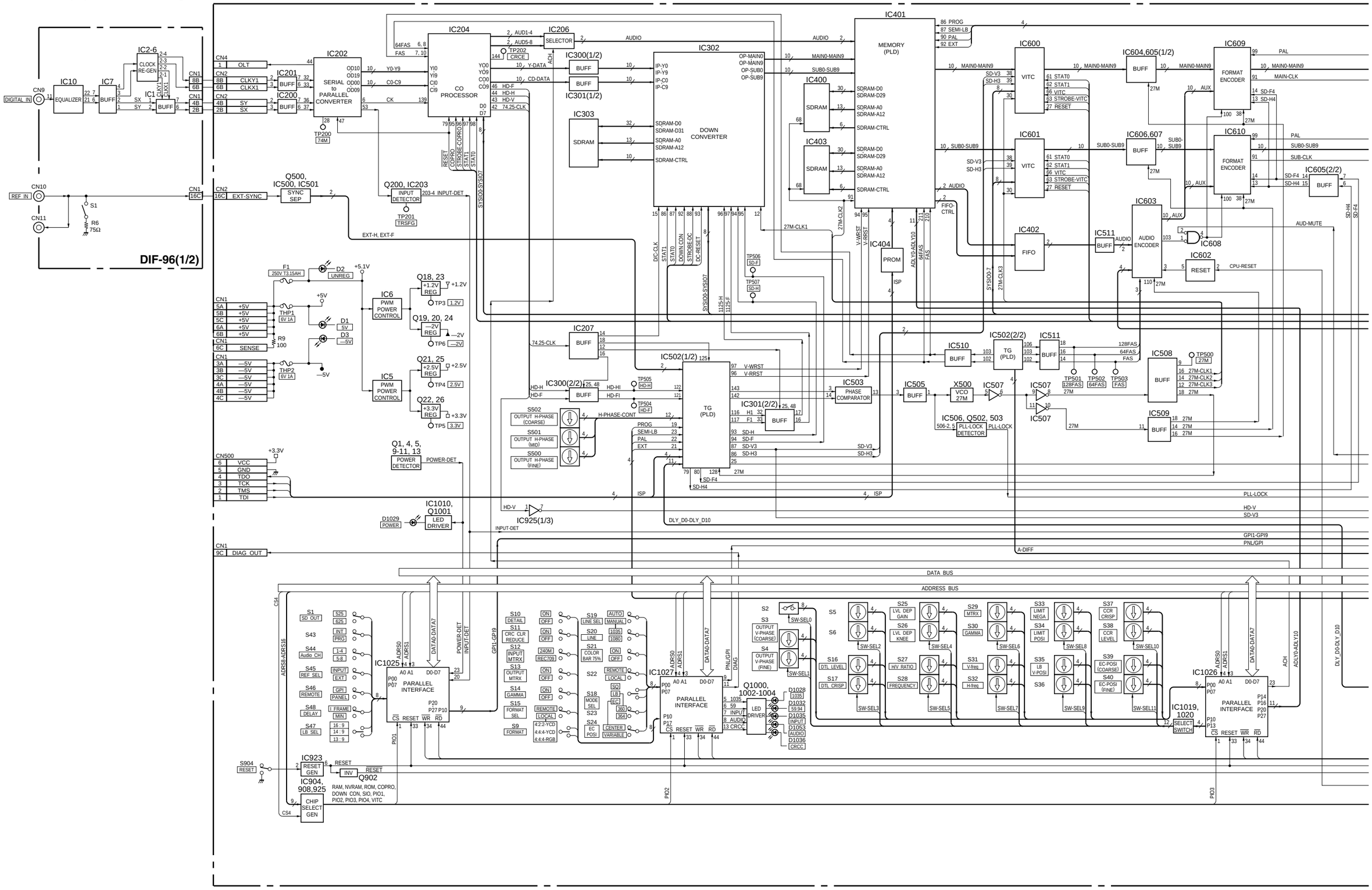
DTA143XKA-T146 ..... TC001-04
DTC143XKA-T146 ..... TC001-03

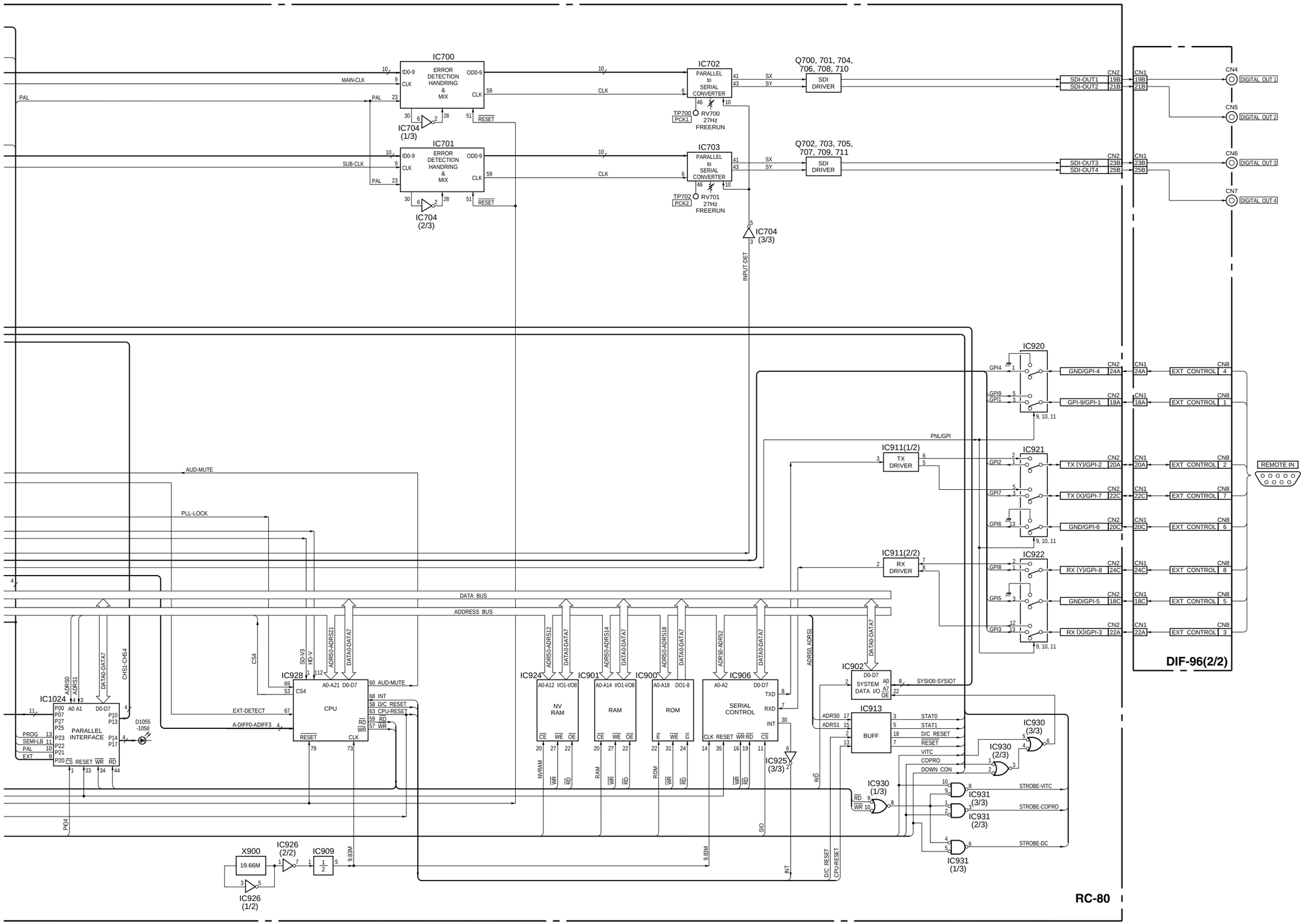
Index

IC	Page or ID No.
74LCX16374MTDX	SN74ABT16374DL
74LCX240MTCX	TC74HC240P
74VHC04MTCX	TC74HC04P
74VHC08MTCX	TC74HC08P
74VHC244MTCX	TC74HC244P
74VHC32MTCX	TC74HC32P
74VHCT244AMTCX	TC74HC244P
74VHCT574AMTCX	TC74HC574P
CXB1341R	CXB1341R
CXD8281Q	CXD8281Q
CXD8385Q	CXD8385Q
CXD8820AR	CXD8820AR
CXD8953Q	CXD8953Q
CXD9000CR	CXD9000CR
CXG8004Q	CXG8004Q
CY62256LL-70ZC-T2	CY62256-70SNC-T2
EPC2LC20	EPC2LC20
EPFQC240AA	EPF10K100ARC240-3
EPM7256ATC144-10	EPM7256ATC144-10
GS4981CTA	GS4981CTA
HD6417032F20	HD6417032F20
LM4040AIM3-2.5	LM4040BIM3
LM4040BIM3-5.0	LM4040BIM3
LM4040BIM3X-5.0	LM4040BIM3
M51958AFP600D	M51958A
MB811643242A-100FN	MB811643242A-100FN
MC10EL07DR2	MC10EL07DR2
MC10EL11DR2	MC10EL11DR2
MC10EL16DR2	MC10EL16DR2
MC10EL52DR2	MC10EL52DR2
MC74HC4046AF	CD4046BE
MC74HC4046AFEL	CD4046BE
MC74HC4053F	MC74HC4053F
MN47V77ST1	MN47V77ST1
MSM82C55A-2GS	MSM82C55A-5GS
MSM82C55A-2GS-VK	MSM82C55A-5GS
SN74LVCC4245APWR	74LVX4245QSCX
SN75179BPS	SN75179BP
SN75179BPS-E05	SN75179BP
STK12C68-S45	STK12C68-S45
TC74HC4053AF(EL)	MC74HC4053F
TC74HC4053AFT(EL)	MC74HC4053F
TC74VHC138FT(EL)	TC74HC138P
TC7S04FU(TE85R)	TC7S04F
TC7S08FU(TE85R)	TC7S08F
TC7S14FU(TE85R)	TC7S14FU
TC7S32FU(TE85R)	TC7S32F
TC7W04FU	TC7W04F
TC7W04FU(TE12R)	TC7W04F
TC7W74FU	TC7W74FU
TC7W74FU(TE12R)	TC7W74FU
TL062CPS	RC4558
TL062CPSR	RC4558
TL1451ACNS	TL1451CNS
TL1451ACNSR	TL1451CNS
TL16C550CPT	TL16C550CPT
TL7705ACPS	TL7705CP
TL7705ACPSR	TL7705CP
TLC272CPS	RC4558
TLC272CPSR	RC4558
UPC2708T-E3	UPC2708T-E3
UPC2712T-E3	UPC2712T-E3

Section 5
Block Diagram

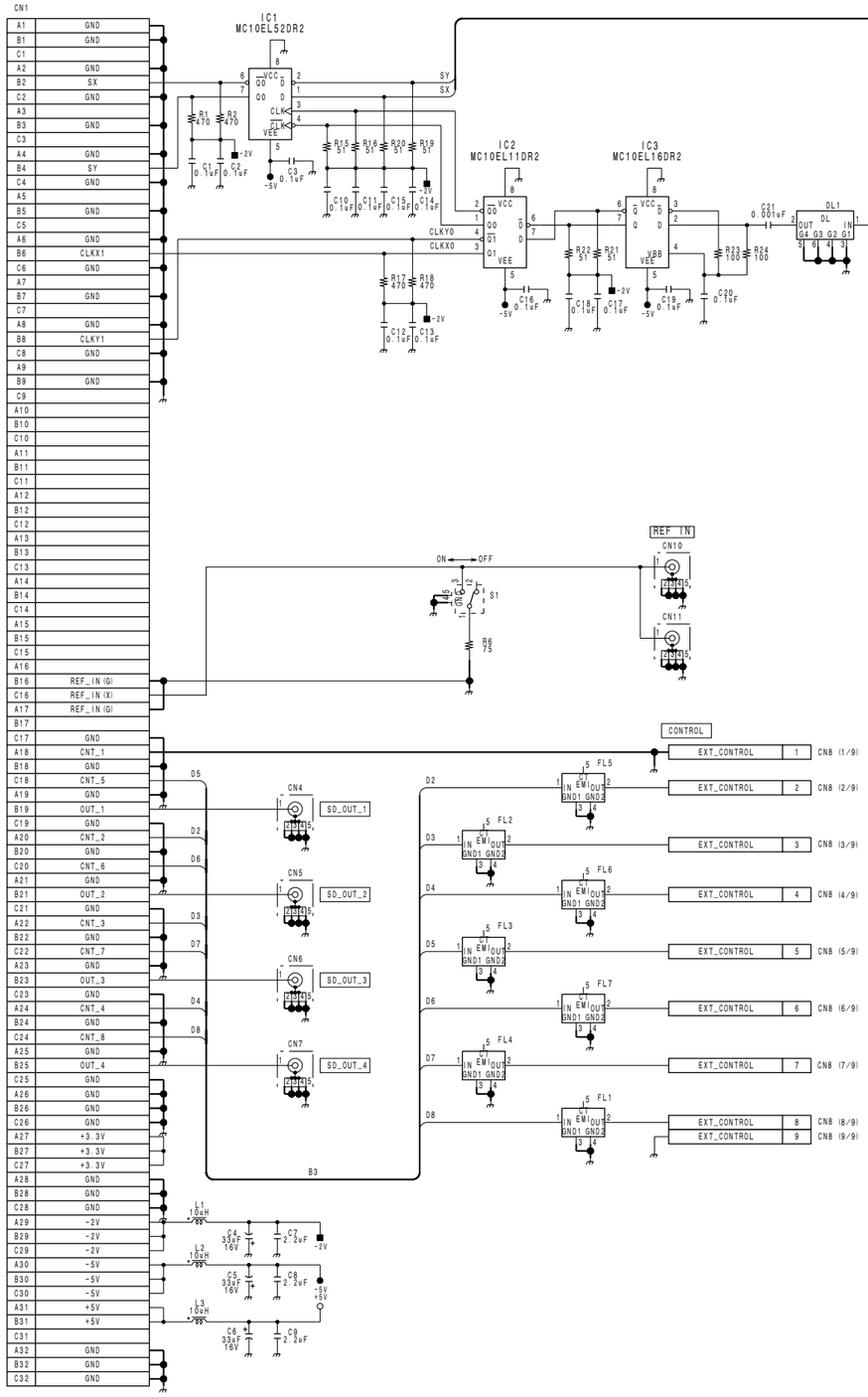
HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher




IC700
ERROR DETECTION HANDRING & MIX
ID0-9
CLK
OD0-9
CLK
RESET
MAIN-CLK
PAL
IC704 (1/3)
IC701
SUB-CLK
IC704 (2/3)
IC702
PARALLEL to SERIAL CONVERTER
TP700 PCK1
RV700 27Hz FREERUN
IC703
TP702 PCK2
RV701 27Hz FREERUN
IC704 (3/3)
INPUT-DET
Q700, 701, 704, 706, 708, 710
Q702, 703, 705, 707, 709, 711
SDI DRIVER
SX
SY
SDI-OUT1
SDI-OUT2
SDI-OUT3
SDI-OUT4
CN1
CN2
CN4
CN5
CN6
CN7
DIGITAL OUT 1
DIGITAL OUT 2
DIGITAL OUT 3
DIGITAL OUT 4
IC920
IC921
IC922
GPI4
GPI9
GPI1
GPI2
GPI7
GPI6
GPI8
GPI5
GPI3
GND/GPI-4
GPI-9/GPI-1
TX (Y)/GPI-2
TX (X)/GPI-7
GND/GPI-6
RX (Y)/GPI-8
GND/GPI-5
RX (X)/GPI-3
9, 10, 11
CN8
EXT CONTROL
REMOTE IN
PNL/GPI
IC911(1/2)
TX DRIVER
IC911(2/2)
RX DRIVER
DIF-96(2/2)
AUD-MUTE
PLL-LOCK
DATA BUS
ADDRESS BUS
IC1024
PARALLEL INTERFACE
PROG
SEMI-LB
PAL
EXT
D1055 -10S8
IC928
CPU
CS4
SD-V3
HD-V
ADRS0-ADRS21
DATA0-DATA7
AUD-MUTE
INT
D/C RESET
CPU-RESET
RD
WR
EXT-DETECT
A-DIFF0-ADIFF3
IC924
NV RAM
IC901
RAM
IC900
ROM
IC906
SERIAL CONTROL
ADRS0-ADRS12
ADRS0-ADRS14
ADRS0-ADRS18
ADRS0-ADRS2
IC902
SYSTEM DATA I/O
SYSIO0-SYSIO7
IC913
BUFF
STAT0
STAT1
D/C RESET
RESET
VITC
COPRO
DOWN CON
IC930 (3/3)
IC930 (2/3)
IC930 (1/3)
IC931 (3/3)
IC931 (2/3)
IC931 (1/3)
STROBE-VITC
STROBE-COPRO
STROBE-DC
IC925 (3/3)
IC926 (2/2)
IC926 (1/2)
IC909
X900
19.66M
9.83M
SIO
INT
D/C RESET
CPURESET
RC-80

Section 6
Schematic Diagrams

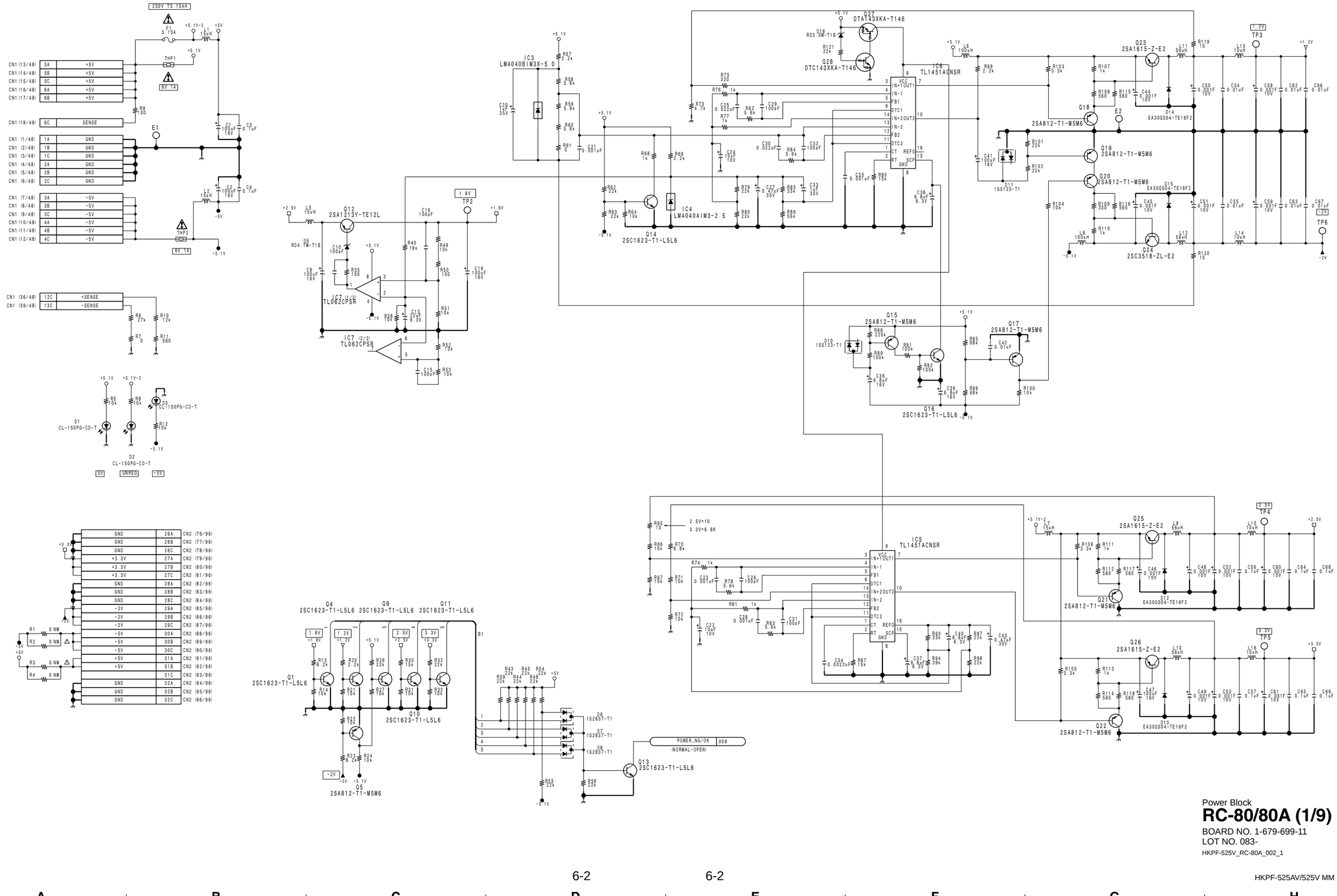
HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



HKPF-525AV/525V MM

Interface Block
DIF-96/96A
BOARD NO. 1-679-700-11
LOT NO. 083-
HKPF-525V_DIF-96A_002_1

HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



Power Block

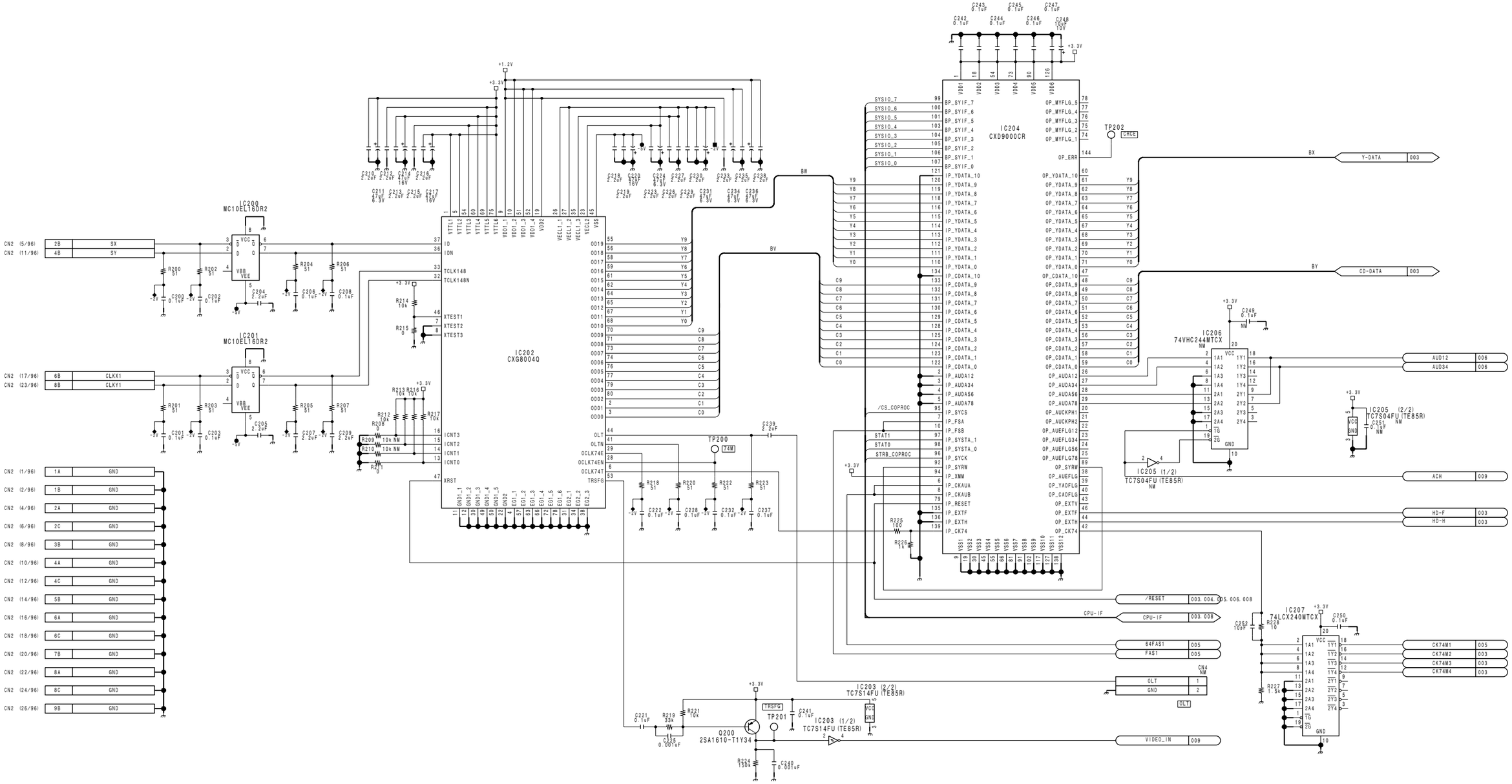
RC-80/80A (1/9)

BOARD NO. 1-679-699-11
LOT NO. 083-

HKPF-525V_RC-80A_002_1

RC-80/80A (2/9)

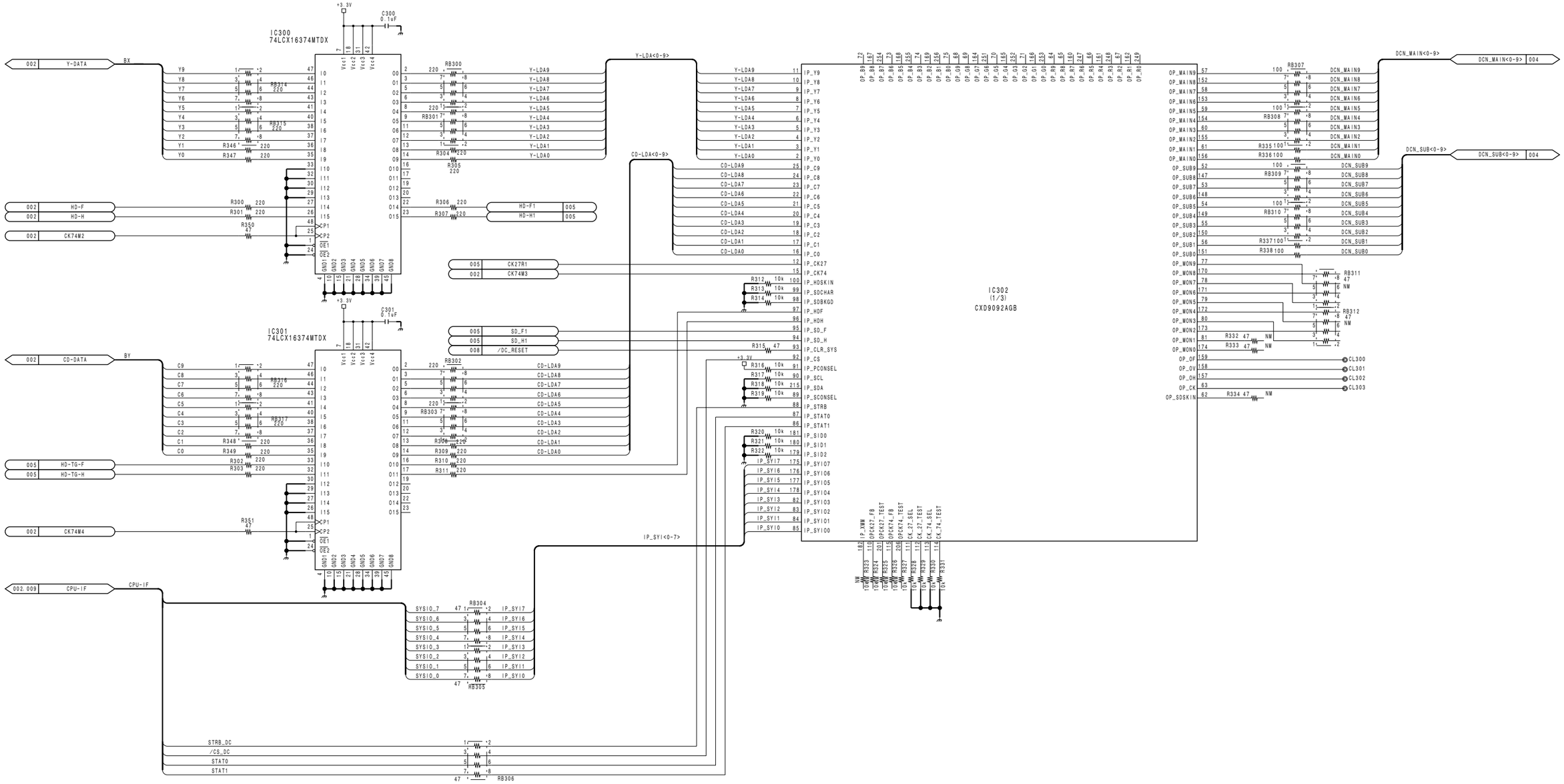
HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



1.5 GHz Processing Block
RC-80/80A (2/9)
BOARD NO. 1-679-699-11
LOT NO. 083-
HKPF-525V_RC-80A_002_2

RC-80/80A (3/9)

HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



6-4

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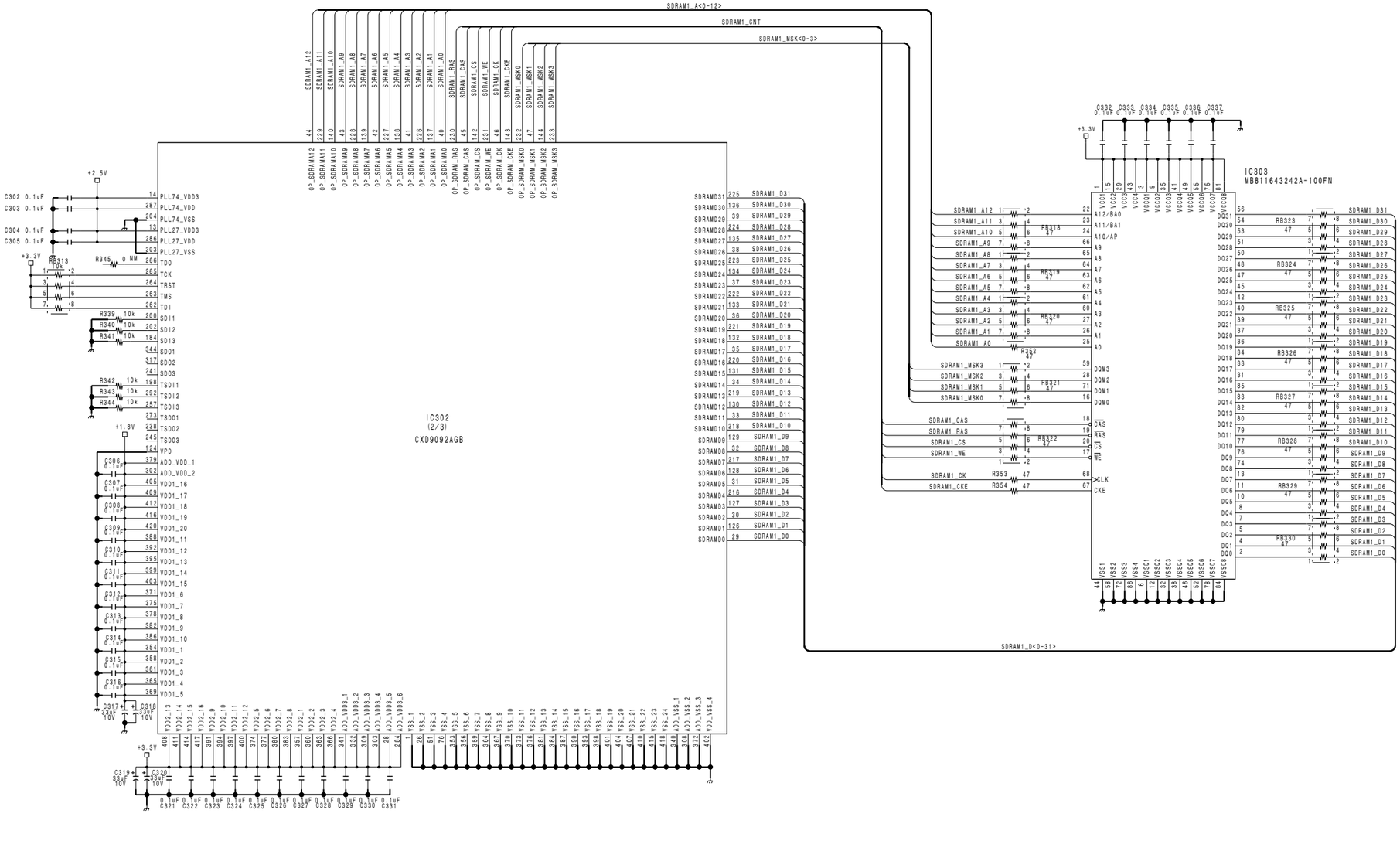
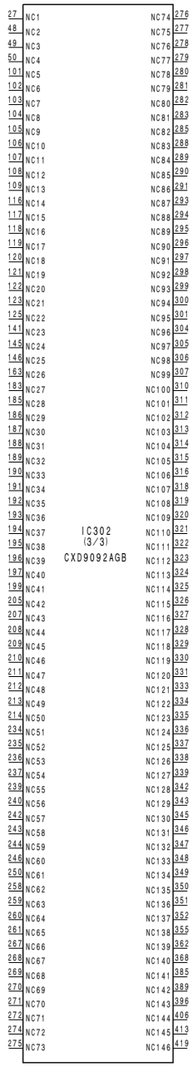




Down Converter Block

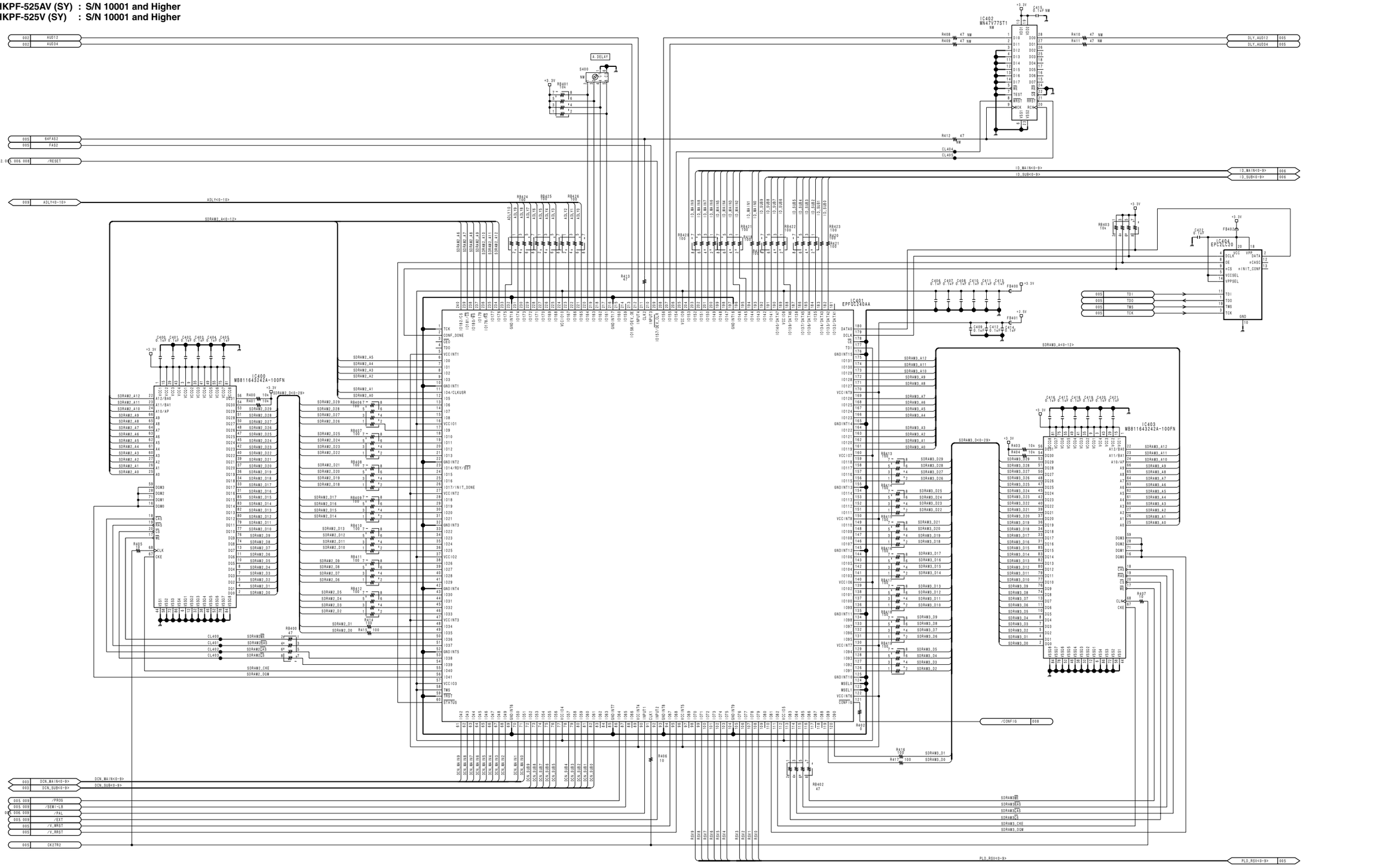
RC-80/80A (3/9)

BOARD NO. 1-679-699-11
LOT NO. 083-

HKPF-525V_RC-80A_002_3

RC-80/80A (4/9)

HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher

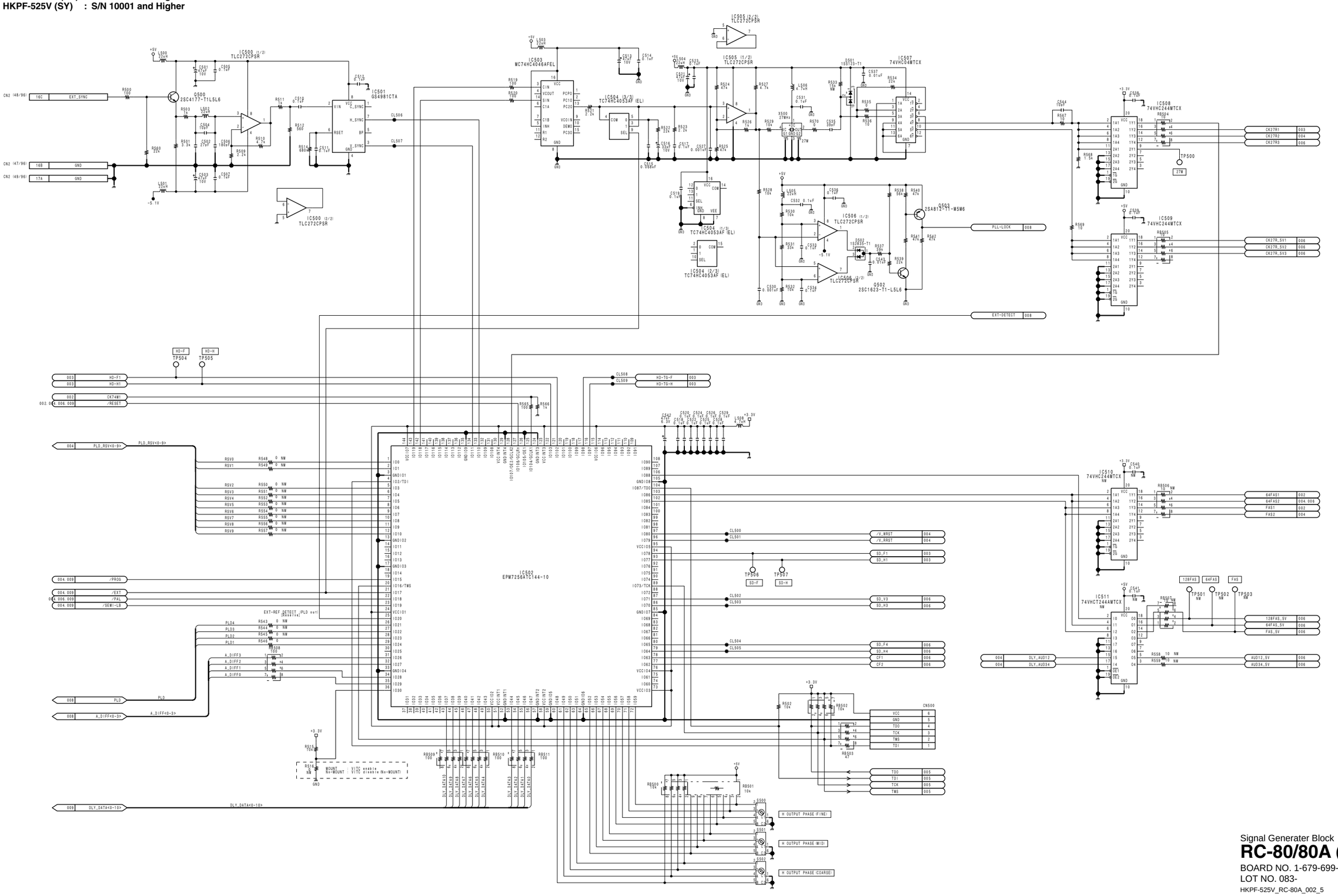


Memory Block
RC-80/80A (4/9)
BOARD NO. 1-679-699-11
LOT NO. 083-
HKPF-525V_RC-80A_002_4

HKPF-525AV/525V MM

6-6

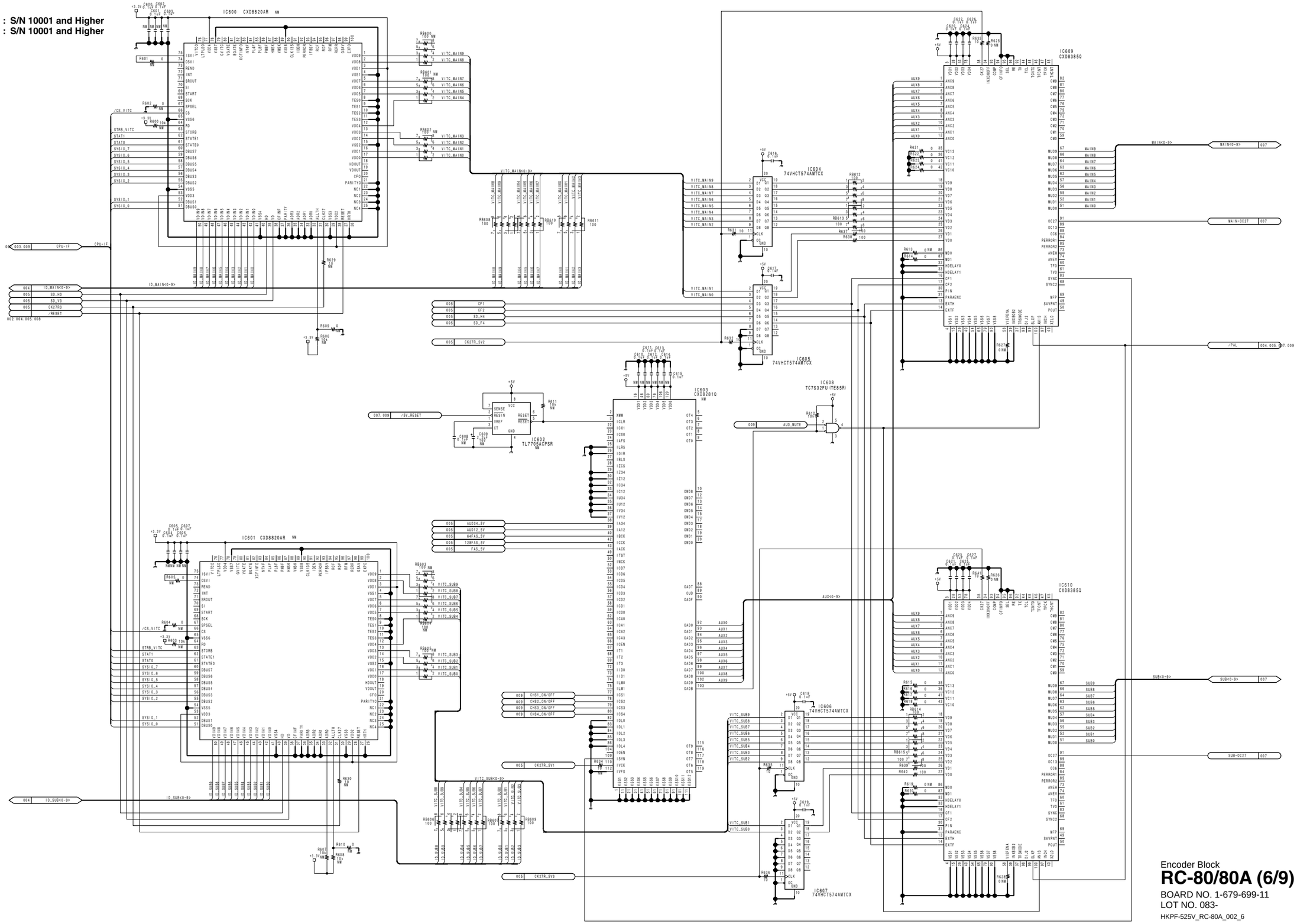
HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



Signal Generator Block
RC-80/80A (5/9)
BOARD NO. 1-679-699-11
LOT NO. 083-
HKPF-525V_RC-80A_002_5

RC-80/80A (6/9)

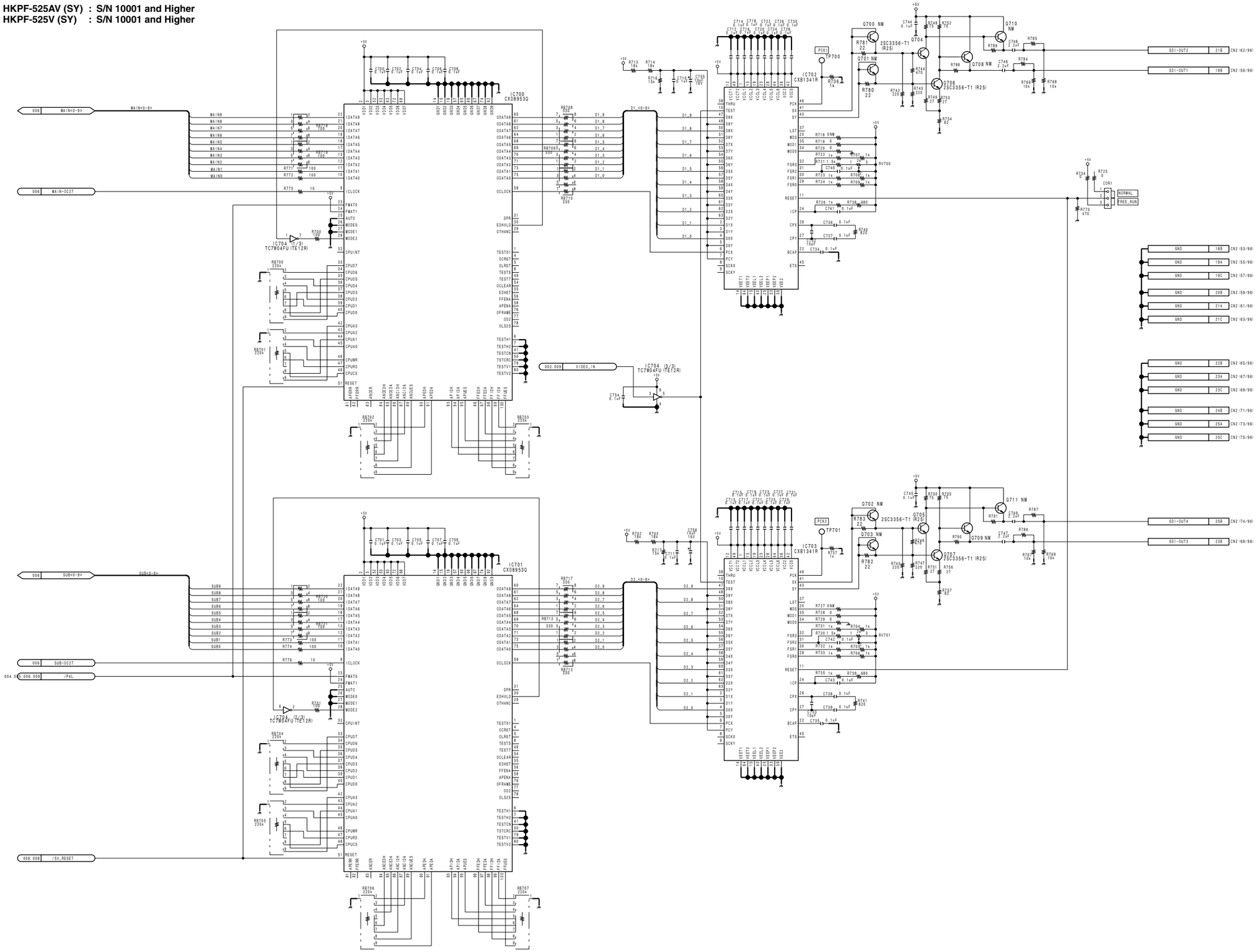
HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



Encoder Block
RC-80/80A (6/9)
BOARD NO. 1-679-699-11
LOT NO. 083-
HKPF-525V_RC-80A_002_6

6-8

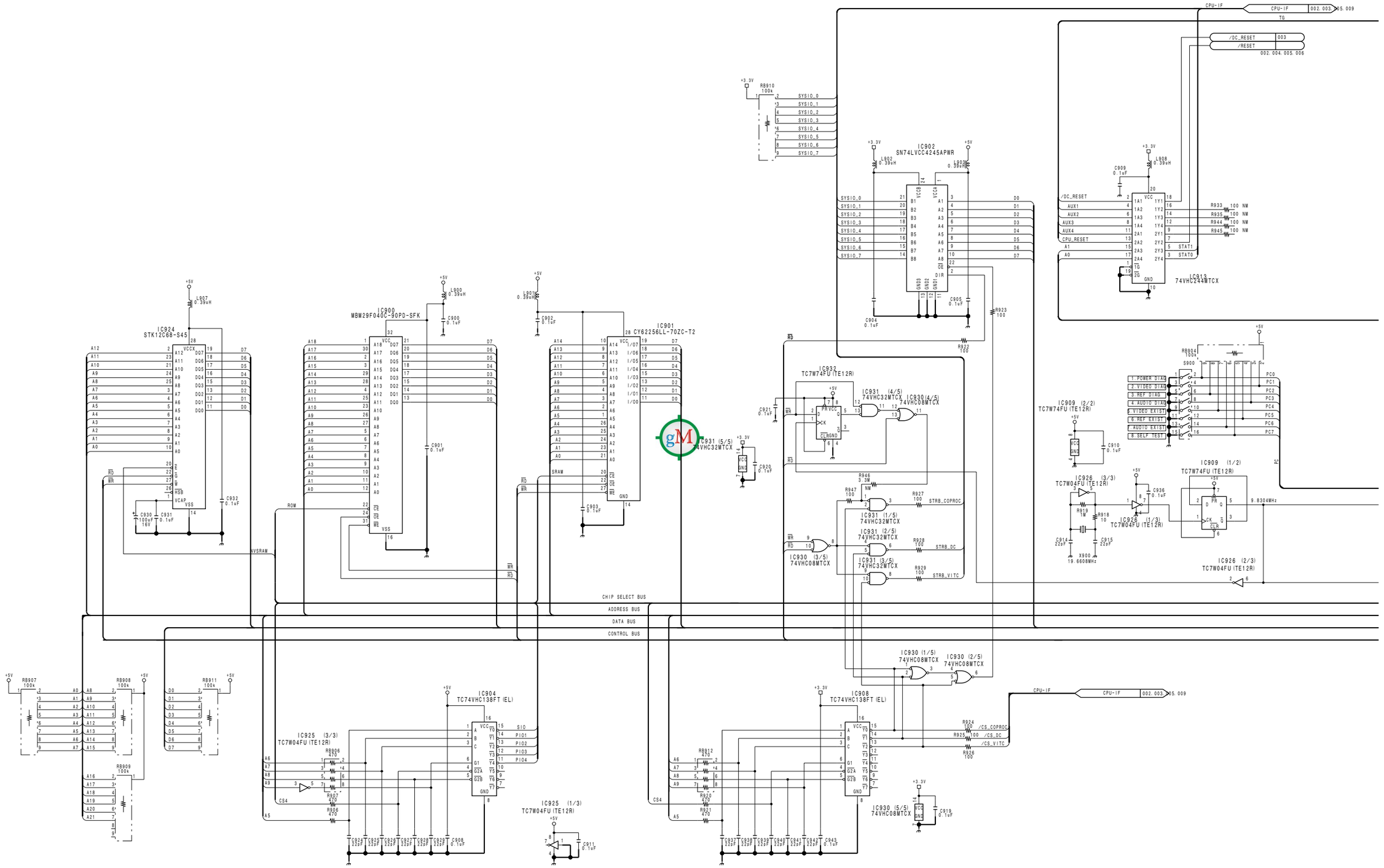
HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



SDI Output Block
RC-80/80A (7/9)
BOARD NO. 1-679-699-11
LOT NO. 083-
HKPF-525V_RC-80A_002_7

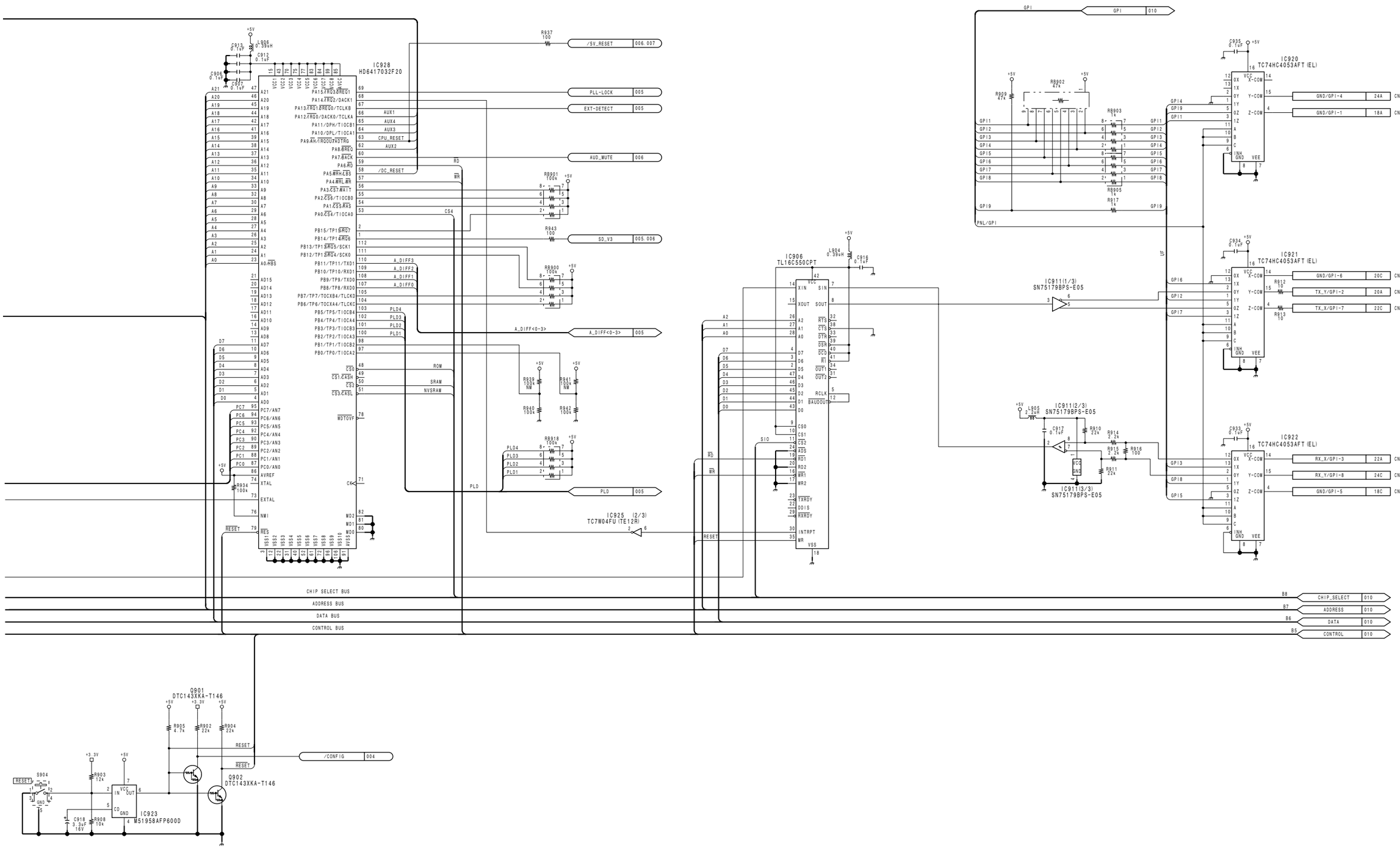
RC-80/80A (8/9)

HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



6-10

RC-80/80A (8/9)



Auto Control Block

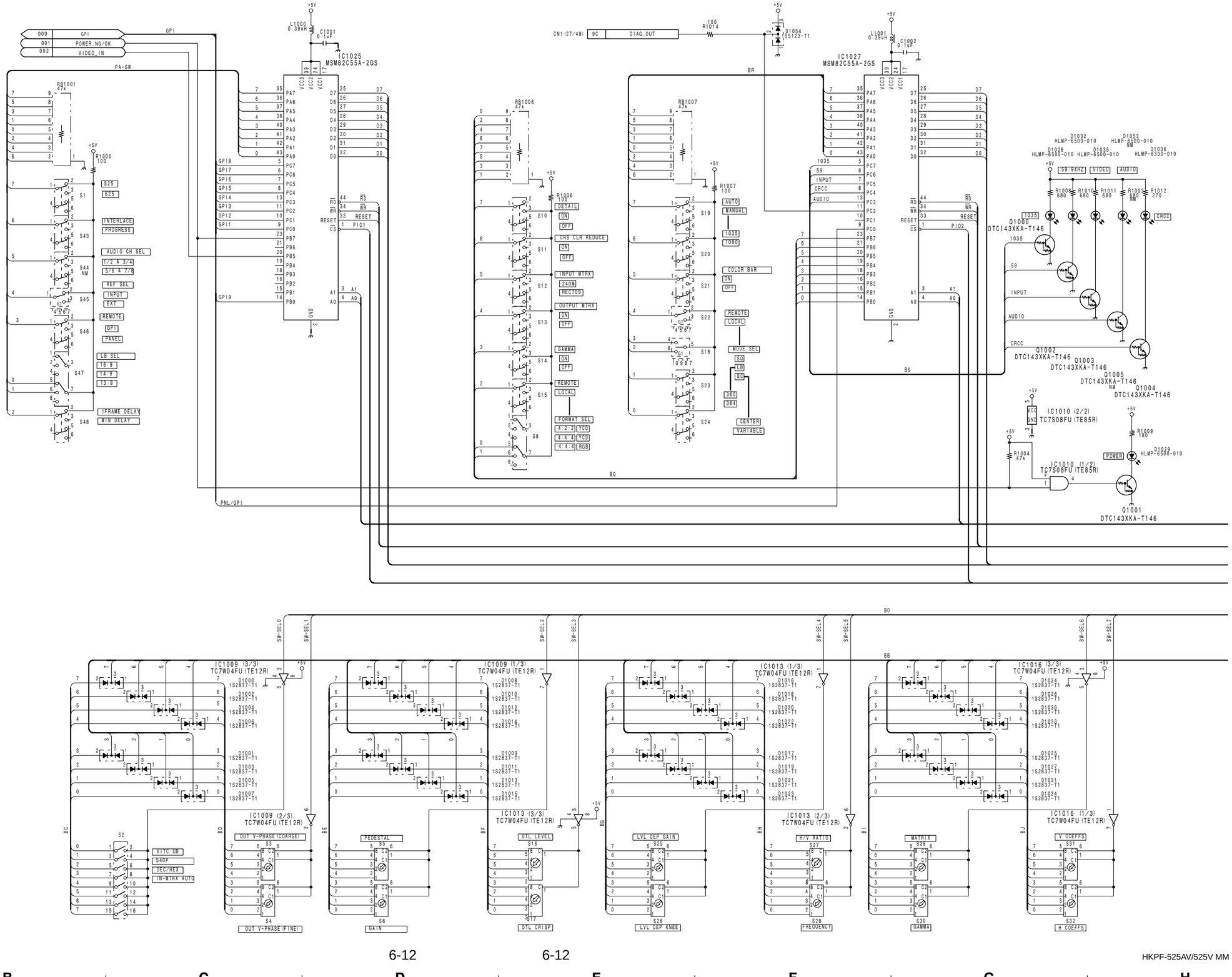
RC-80/80A (8/9)

BOARD NO. 1-679-699-11
LOT NO. 083-

HKPF-525V_RC-80A_002_8

RC-80/80A (9/9)

HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher



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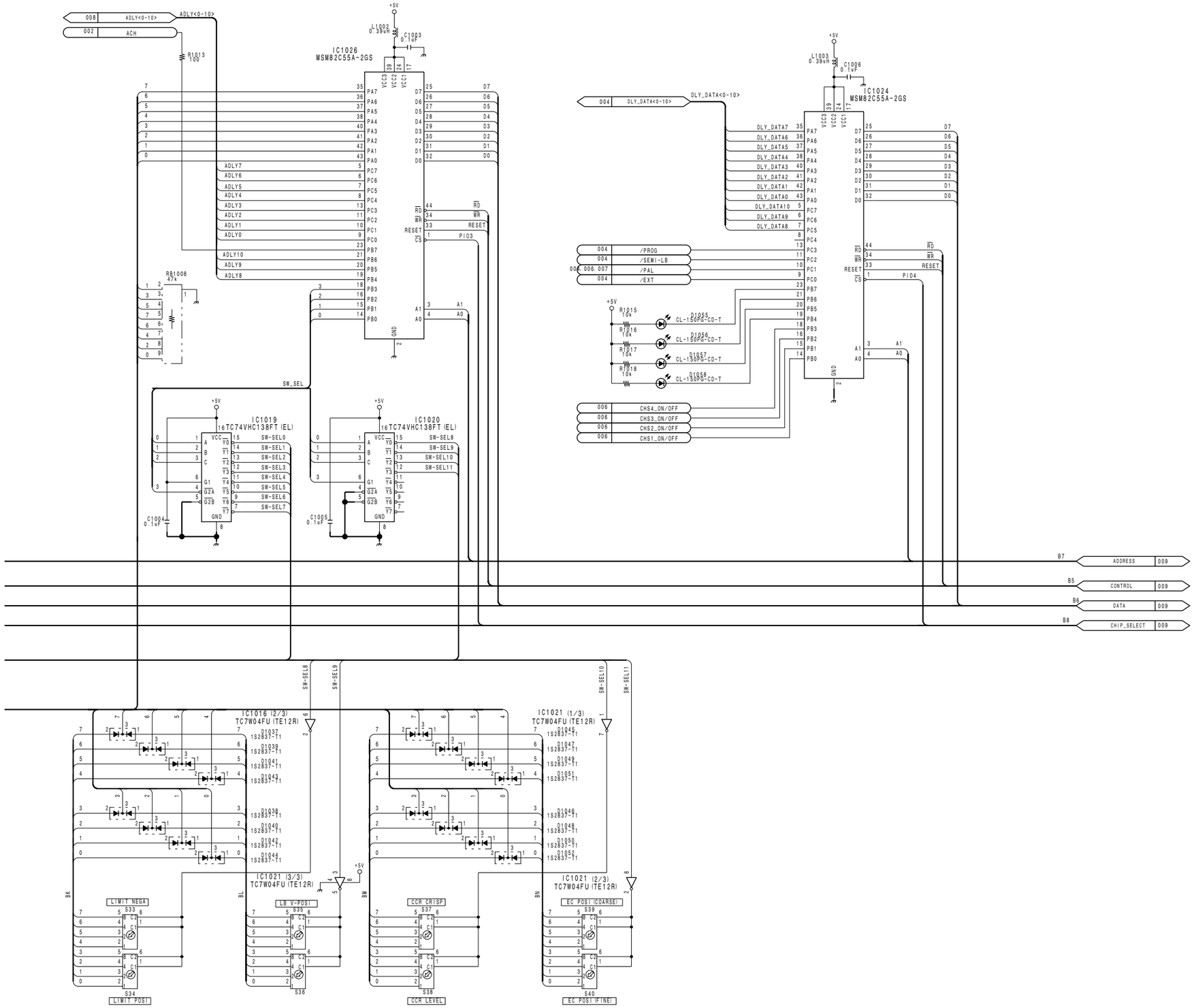

SW/LED Interface Block

RC-80/80A (9/9)

BOARD NO. 1-679-699-11
LOT NO. 083-

HKPF-525V_RC-80A_002_9

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Section 7
Board Layouts

DIF-96/96A (1-679-700-11)
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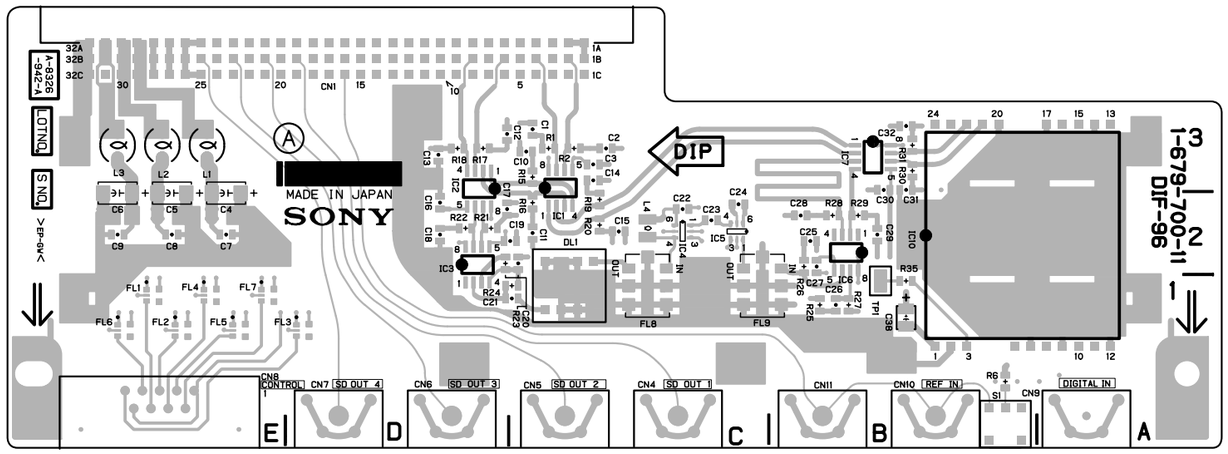
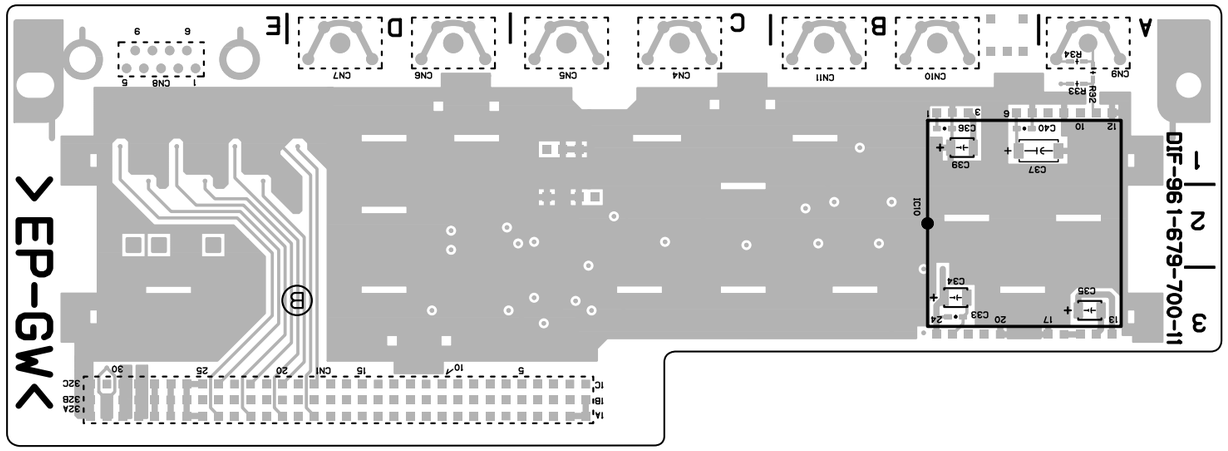
*:B SIDE

C1	C3	FL8	C1
C2	C3	FL9	C1
C3	C3		
C4	E2	IC1	C2
C5	E2	IC2	D3
C6	E2	IC3	D1
C7	E2	IC4	C2
C8	E2	IC5	C2
C9	E2	IC6	B2
C10	C3	IC7	B3
C11	C2	IC10	B1
C12	D3		
C13	D3	L1	E3
C14	C3	L2	E3
C15	C2	L3	E3
C16	D2	L4	C2
C17	D2		
C18	D2	R1	C3
C19	C2	R2	C3
C20	C2	R6	B1
C21	C1	R15	C3
C22	C2	R16	C2
C23	C2	R17	D3
C24	C2	R18	D3
C25	B2	R19	C2
C26	B1	R20	C2
C27	B2	R21	D2
C28	B2	R22	D2
C29	B2	R23	D2
C30	B3	R24	C1
C31	B3	R25	B1
C32	B3	R26	B2
C33	*B3	R27	B1
C34	*B3	R28	B2
C35	*A3	R29	B2
C36	*B1	R30	B3
C37	*A1	R31	B3
C38	B1	R32	*A1
C39	*B1	R33	*A1
C40	*B1	R34	*A1
		R35	B1
CN1	D3		
CN4	C1	S1	B1
CN5	C1		
CN6	D1	TP1	B1
CN7	D1		
CN8	E1		
CN9	A1		
CN10	B1		
CN11	B1		
DL1	C1		
FL1	E1		
FL2	E1		
FL3	D1		
FL4	E1		
FL5	E1		
FL6	E1		
FL7	E1		

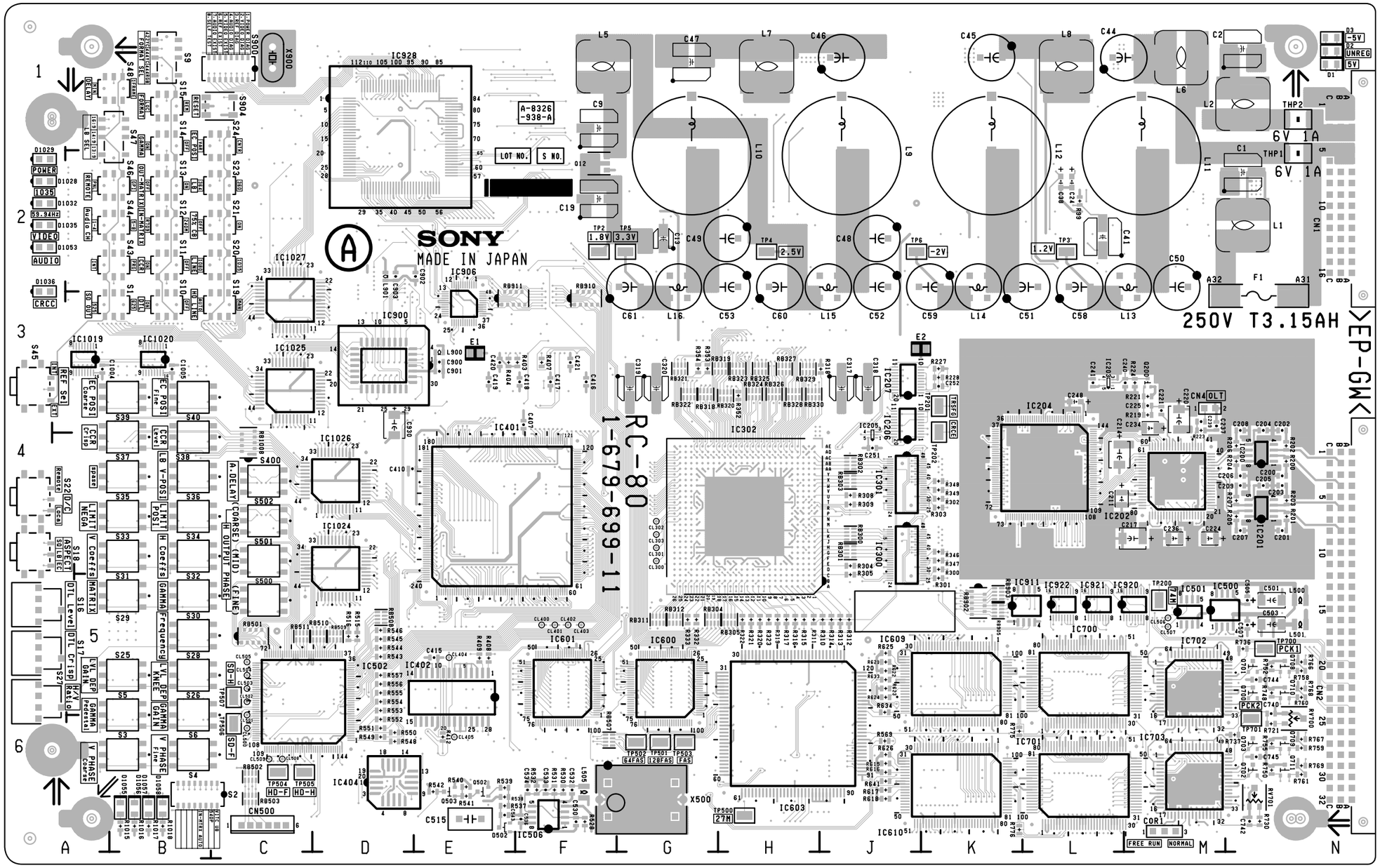


DIF-96/96A -A SIDE-
SUFFIX: -11



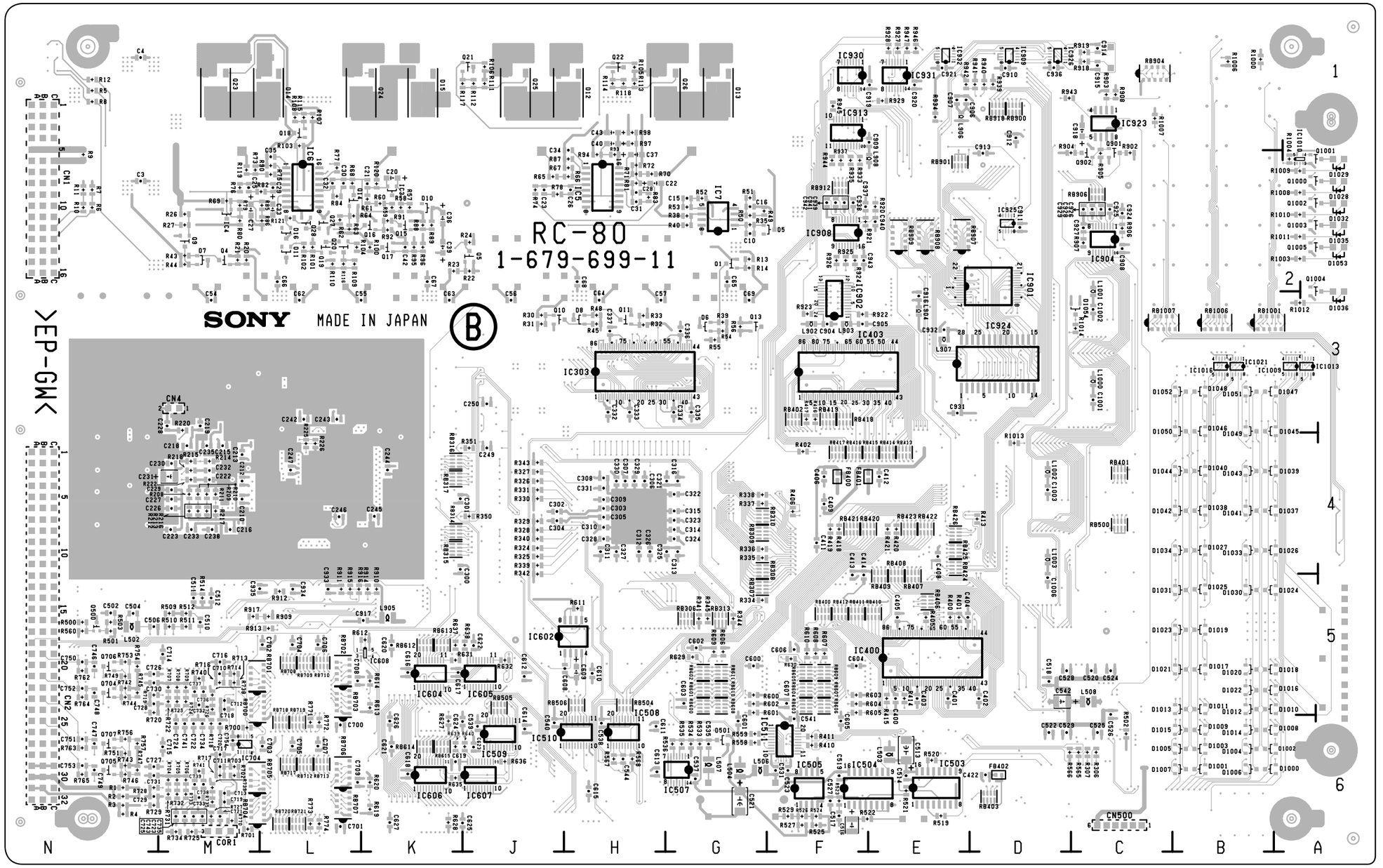
HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher

DIF-96/96A -B SIDE-
SUFFIX: -11



HKPF-525AV (SY) : S/N 10001 and Higher
HKPF-525V (SY) : S/N 10001 and Higher

RC-80/80A -A SIDE-
SUFFIX: -11



Components location list ; next page

RC-80/80A -B SIDE-
SUFFIX: -11

RC-80/80A (1-679-699-11)
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*:B SIDE

C1	N2	C230	*M4	C507	N5	C726	*N5	CL502	C5	D1058	B6	IC1026	D4	R3	*N6	R108	*L1	R347	K4	R603	*F5	R755	N6	RB310	*G4	RB720	*L6	TP504	C6
C2	N1	C231	*M4	C510	*M5	C727	*N6	CL503	C5			IC1027	C3	R4	*N6	R109	*L2	R348	K4	R604	*F5	R756	*N6	RB311	G5	RB721	*L6	TP505	C6
C3	*N2	C232	*M4	C511	*M5	C728	*N5	CL504	C5	E1	E3			R5	*N1	R110	*L2	R349	K4	R605	*F5	R757	*N6	RB312	G5	RB900	*D1	TP506	C6
C4	*N1	C233	*M4	C512	*M5	C729	*N6	CL505	C5	E2	K3	L1	N2	R6	*N2	R111	*J1	R350	*J4	R606	*G5	R758	N5	RB313	*G5	RB901	*E2	TP507	C5
C9	F1	C234	M3	C513	*E6	C730	*N5	CL506	M5			L2	N1	R7	*N2	R112	*J1	R351	*J4	R607	*F5	R759	N6	RB314	*K4	RB902	K5	TP700	N5
C10	*G2	C235	*M4	C514	*E6	C731	*N6	CL507	M5	F1	N3	L5	F1	R8	*N1	R113	*H1	R352	H3	R608	*F5	R760	N5	RB315	*K4	RB903	K5	TP701	N6
C13	G2	C236	M4	C515	E6	C732	*M5	CL508	C6			L6	M1	R9	*N2	R114	*H1	R353	G3	R609	*G5	R761	N6	RB316	*K4	RB904	*C1		
C15	*G2	C237	M3	C516	*F6	C733	*M6	CL509	C6	FB400	*F4	L7	H1	R10	*N2	R115	*L1	R354	G3	R610	*F5	R762	*N5	RB317	*K4	RB905	K5	X500	G6
C16	*G2	C238	*M4	C517	*F6	C734	*M6			FB401	*F4	L8	L1	R11	*N2	R116	*L2	R400	*E5	R611	*H5	R763	*N6	RB318	G3	RB906	*C2	X900	C1
C19	F2	C239	M3	C518	*D5	C735	*M6	CN1	N2	FB402	*D6	L9	J1	R12	*N1	R117	*K1	R401	*E5	R612	*K5	R764	*N5	RB319	H3	RB907	*E2		
C20	*K2	C240	M3	C519	*F6	C736	*M5	CN2	N5			L10	G1	R13	*G2	R118	*H1	R402	*F4	R613	*K5	R765	*N6	RB320	H3	RB908	*E2		
C21	*K2	C241	L3	C520	*C5	C737	*M5	CN4	M3	IC3	*K2	L11	M1	R14	*G2	R119	*M2	R403	F3	R614	*K5	R766	N5	RB321	G3	RB909	*E2		
C22	*H2	C242	*L3	C521	*G6	C738	*M6	CN500	C6	IC4	*M2	L12	K1	R20	*M2	R120	*K2	R404	E3	R615	J6	R767	N6	RB322	G3	RB910	F3		
C23	*J2	C243	*L3	C522	*D6	C739	*M6			IC5	*H2	L13	M2	R21	*M2	R121	*L2	R405	*E5	R616	J6	R768	N5	RB323	H3	RB911	E3		
C24	L2	C244	*K4	C523	*F6	C740	N5	COR1	M6	IC6	*L2	L14	K2	R22	*J2	R200	N4	R406	*F4	R617	J6	R769	N6	RB324	H3	RB912	*F2		
C25	*M2	C245	*K4	C524	*C5	C741	*M6			IC7	*G2	L15	J2	R23	*K2	R201	N4	R407	F3	R618	J6	R770	*M6	RB325	H3	RB918	*D1		
C26	*H2	C246	*L4	C525	*C6	C742	N6	D1	N1	IC200	N4	L16	G2	R24	*J2	R202	N4	R408	E5	R619	*K6	R771	*L6	RB326	H3	RB1001	*B3		
C27	*M2	C247	*L4	C526	*C5	C743	*M6	D2	N1	IC201	N4	L500	N5	R26	*M2	R203	N4	R409	E5	R620	*K6	R772	*L6	RB327	H3	RB1006	*B3		
C28	*H2	C248	L3	C527	*F6	C744	N5	D3	N1	IC202	M4	L501	N5	R27	*M2	R204	N4	R410	*F6	R621	J5	R773	*L6	RB328	H3	RB1007	*C3		
C29	*L2	C249	*J4	C528	*D5	C745	N6	D5	*F2	IC203	L3	L502	*N5	R30	*J3	R205	N4	R411	*F6	R622	J5	R774	*L6	RB329	H3	RB1008	C4		
C30	*L2	C250	*J3	C529	*D6	C746	*N5	D6	*G3	IC204	L4	L503	*E6	R31	*J3	R206	N4	R412	E6	R623	J5	R775	K6	RB330	H3				
C31	*H2	C251	J4	C530	F6	C747	*N6	D7	*M2	IC205	J4	L504	*G6	R32	*H3	R207	N4	R413	*D4	R624	J5	R776	K6	RB400	*F5	RV700	N6		
C32	*L2	C252	K3	C531	*F6	C748	*N5	D8	*H3	IC206	K4	L505	F6	R33	*H3	R208	*M4	R414	*E5	R625	J5	R902	*C2	RB401	*C4	RV701	N6		
C33	*L2	C300	*K4	C532	F6	C749	*N6	D10	*K2	IC207	K3	L506	*G6	R35	*G2	R209	*M4	R415	*E5	R626	J6	R903	*C1	RB402	*F3				
C34	*H1	C301	*K4	C533	F6	C750	*N5	D11	*L2	IC300	J4	L507	*G6	R38	*G2	R210	*M4	R416	*F3	R627	*K6	R904	*D2	RB403	*D6	S1	B3		
C35	*L2	C302	*J4	C534	F6	C751	*N6	D12	*H1	IC301	J4	L508	*C5	R39	*G3	R211	*M4	R417	*F3	R628	*K6	R905	*C2	RB406	*E5	S2	B6		
C36	*K2	C303	*H4	C535	*G6	C752	*N5	D13	*G1	IC302	H4	L900	E3	R40	*G2	R212	*M4	R418	*F4	R629	*G5	R906	*C2	RB407	*E5	S3	B6		
C37	*H2	C304	*J4	C536	F6	C753	*N6	D14	*L1	IC303	*H3	L901	D2	R43	*M2	R213	*M4	R419	*F4	R630	*F5	R907	*C2	RB408	*E5	S4	B6		
C38	L2	C305	*H4	C537	*G6	C754	*M6	D15	*K1	IC400	*E5	L902	*F3	R44	*M2	R214	*M4	R420	*E4	R631	*K5	R908	*C1	RB409	*E5	S5	B5		
C39	*K2	C306	*H4	C538	*H6	C900	E3	D16	*L2	IC401	E4	L903	*F3	R45	*H3	R215	*M4	R421	*E4	R632	*J5	R909	*L5	RB410	*E5	S6	B5		
C40	*H1	C307	*H4	C539	*J6	C901	E3	D501	*G6	IC402	E5	L904	*E3	R48	*H3	R216	*M4	R500	*N5	R633	J5	R910	*K5	RB411	*F5	S9	B1		
C41	L2	C308	*H4	C540	*J6	C902	E2	D502	E6	IC403	*F3	L905	*K5	R49	*G2	R217	*M4	R501	*N5	R634	J5	R911	*L5	RB412	*F5	S10	B3		
C42	*K2	C309	*H4	C541	*F6	C903	D2	D1000	*B6	IC404	D6	L906	*E1	R50	*G2	R218	*M4	R502	*C6	R635	*K6	R912	*L5	RB413	*E4	S11	B2		
C43	*H1	C310	*H4	C542	*D5	C904	*F3	D1001	*B6	IC500	M5	L907	*E3	R51	*G2	R219	M3	R503	*N5	R636	*J6	R913	*L5	RB414	*E4	S12	B2		
C44	M1	C311	*H4	C543	E6	C905	*F3	D1002	*B6	IC501	M5	L908	*E2	R52	*G2	R220	*M3	R509	*M5	R637	*K5	R914	*K5	RB415	*E4	S13	B2		
C45	K1	C312	*H4	C544	*H6	C906	*E1	D1003	*B6	IC502	C5	L1000	*C3	R53	*G2	R221	M3	R510	*M5	R638	*J5	R915	*L5	RB416	*F4	S14	B1		
C46	J1	C313	*G4	C600	*G5	C907	*E1	D1004	*B6	IC503	*E6	L1001	*C2	R54	*G3	R222	*M4	R511	*M5	R639	*K6	R916	*L5	RB417	*F4	S15	B1		
C47	G1	C314	*G4	C601	*G6	C908	*C2	D1005	*B6	IC504	*F6	L1002	*D4	R55	*G3	R223	M3	R512	*M5	R640	*J6	R917	*M5	RB418	*F3	S16	A5		
C48	J2	C315	*G4	C602	*G5	C909	*E1	D1006	*B6	IC505	*F6	L1003	*D4	R56	*G3	R224	M3	R514	*M5	R641	J6	R918	*C1	RB419	*F3	S17	A5		
C49	H2	C316	*G4	C603	*G5	C910	*D1	D1007	*B6	IC506	F6			R57	*K2	R225	*L4	R515	D5	R700	*M6	R919	*C1	RB420	*E4	S18	A4		
C50	M2	C317	J3	C604	*F5	C911	*D2	D1008	*B6	IC507	*G6	Q1	*G2	R58	*K2	R226	*L4	R516	D5	R701	*M6	R920	*E2	RB421	*F4	S19	C3		
C51	L2	C318	J3	C605	*F6	C912	*D1	D1009	*B6	IC508	*H6	Q4	*M2	R59	*K2	R227	K3	R519	*E6	R702	*M6	R921	*F2	RB422	*E4	S20	C2		
C52	J2	C319	G3	C606	*F5	C913	*D2	D1010	*B5	IC509	*J6	Q5	*J2	R60	*K2	R228	K3	R520	*E6	R703	*M6	R922	*F3	RB423	*E4	S21	C2		
C53	H2	C320	G3	C607	*F5	C914	*C1	D1011	*B5	IC510	*J6	Q9	*M2	R61	*K2	R300	K4	R521	*E6	R704	*M6	R923	*F3	RB424	*E4	S22	A4		
C54	*M3	C321	*G4	C608	*H5	C915	*C1	D1012	*B5	IC511	*F6	Q10	*J3	R62	*L2	R301	K5	R522	*F6	R705	*M6	R924	*F2	RB425	*E4	S23	C2		
C55	*L3	C322	*G4	C609	*H5	C916	*E3	D1013	*B5	IC600	G5	Q11	*H3	R63	*L2	R302	K4	R523	*F6	R706	*M6	R925	*F2	RB426	*E4	S24	C1		
C56	*J3	C323	*G4	C610	*H5	C917	*K5	D1014	*B6	IC601	F5	Q12	F2	R64	*L2	R303	K4	R524	*F6	R707	*M5	R926	*F2	RB500	*C4	S25	B5		
C57	*H3	C324	*G4	C611	*H6	C918	*C1	D1015	*B6	IC602	*H5	Q13	*G3	R65	*J2	R304	J4	R525	*F6	R708	*M5	R927	*E1	RB501	C5	S26	B5		
C58	L2	C325	*G4	C612	*J5	C919	*E1	D1016	*B5	IC603	H6	Q14	*L2	R66	*H2	R305	J5	R526	*F6	R709	*M5	R928	*E1	RB502	C6	S27	A5		
C59	K2	C326	*H4	C613	*H6	C920	*E1	D1017	*B5	IC604	*K5	Q15	*K2	R67	*H2	R306	*C6	R527	*F6	R713	*M5	R929	*E1	RB503	C6	S28	B5		
C60	H2	C327	*H4	C614	*J6	C921	*E1	D1018	*B5	IC605	*J5	Q16	*K2	R68	*L2	R307	*C6	R528	F6	R714	*M5	R933	*F2	RB504	*H5	S29	B5		
C61	G2	C328	*H4	C615	*H6	C924	*C2	D1019	*B5	IC606	*K6	Q17	*K2	R69	*M2	R308	J4	R529	*F6	R716	*M5	R934	*E1	RB505	*J5	S30	B5		
C62	*L3	C329	*H4	C616	*K5	C925	*C2	D1020	*B5	IC607	*J6	Q18	*L1	R70	*H2	R309	J4	R530	F6	R717	*M6	R935	*F2	RB506	*H5	S31	B4		
C63	*K3	C330	*H4	C617	*K5	C926	*C2	D1021	*B5	IC608	*K5	Q19	*L2	R71	*H2	R310	J5	R531	F6	R718	*M6	R937	*F2	RB507	F6	S32	B4		
C64	*H3	C331	*H4	C618	*K6	C927	*C2	D1022	*B5	IC609	K5	Q20	*L2	R72	*H2	R311	H5	R532	F6	R719	*N5	R939	*D1	RB508	D5	S33	B4		
C65	*G2	C332	*H3	C619	*K6	C928	*C2	D1023	*B5	IC610	K6	Q21	*J1	R73	*M2	R312	J5	R533	*G6	R720	*N5	R940	*D1	RB509	D5	S34	B4		
C66	*L2	C333	*H3	C620	*K5	C929	*C2	D1024	*B5	IC700	L5	Q22	*H1	R74	*J2	R313	J5	R534	*G6	R721	N6	R941	*D1	RB510	D5	S35	B4		
C67	*K2	C334	*G3	C621	*K6	C930	D3	D1025	*B5	IC701	L6	Q23	*M1	R75	*L2	R314	J5	R535	*G6	R722	*M5	R942	*E1	RB511	C5	S36	B4		
C68	*H2	C335	*G3	C622	*J5	C931	*E3	D1026	*B4	IC702	M5	Q24	*L1	R76	*M2	R315	H5	R536	*G6	R723	*M5	R943	*D1	RB600	*G5	S37	B4		
C69	*G3	C336	*G3	C623	*J6	C932	*E3	D1027	*B4	IC703	M6	Q25	*J1	R77	*L2	R316	H5	R537	E6	R724	*M5	R944	*F2	RB601	*G5	S38	B4		
C200	N4	C337	*H3	C624	*K6	C933	*L5	D1028	A2	IC704	*M6	Q26	*H1	R78	*J2	R317	H5	R538	E6	R725	*M6	R945	*F1	RB602	*G5	S39	B3		
C201	N4	C400	*E5	C625	*K6	C934	*L5	D1029	A2	IC900	D3	Q27	*L2	R79	*M2	R318	J3	R539	E6	R726	*M5	R946	*E1	RB603	*F5	S40	B3		
C202	N3	C401	*E5	C626	*K6	C935	*M5	D1030	*B5	IC901	*E2	Q28	*L2	R80	*M2	R319	H5	R540	E6	R727	*M6	R947	*E1	RB604	*F5	S43	B2		
C203	N4	C402	*D5	C627	*K6	C936	*D1	D1031	*B5	IC902	*F3	Q200	M3	R81	*H2	R320	H5	R541	E6	R728	*N6	R1000	*B1	RB605	*F5	S44	B2		
C204	N3	C403	*E5	C700	*L6	C937	*F2	D1032	A2	IC904	*C2	Q500	*N5	R82	*L2	R321	H5	R542	E6	R729	*N6	R1003	*A2	RB606	*F5	S45	A3		
C205	N4	C404	*E5	C701	*L6	C938	*F2	D1033	*B4	IC906	E3	Q502	E6	R83	*H2	R322	H5	R543	D5	R730	N6	R1004	*A2	RB607	*F5	S46	B2		
C206	N4	C405	*E5	C702	*L5	C939	*F2	D1034	*B4	IC908	*F2	Q503	E6	R84	*L2	R323	H5	R544	D5	R731	*M6	R1006	*B1	RB608	*G5	S47	B1		
C207	N4	C406	*F4	C703	*L6	C940	*E2	D1035	A2	IC909	*D1	Q700	N5	R85	*L2	R324	*J4	R545	D5	R732	*M6	R1007	*C1	RB609	*F5	S48	B1		
C208	N3	C407	F3	C704	*L5	C941	*F2	D1036	A2	IC911	K5	Q701	N5	R86	*L2	R325	*J4	R546	D5	R733	*M6	R1008	*A2	RB610	*G5	S400	C4		
C209	N4	C408	*E4	C705	*L6	C942	*F2	D1037	*B4	IC913	*F1	Q702	N6	R87	*H2	R326	*J4	R548	D6	R734	*M6	R1009	*A2	RB611	*G5	S500	C5		
C210	*M4	C409	*F4	C706	*L5	C943	*F2	D1038	*B4	IC920	M5	Q703	N6	R88	*K2	R327	*J4	R549	D6	R735	*M6	R1010	*A2	RB612	*K5	S501	C4		
C211	L4	C410	D4	C707	*L6	C1001	*C3	D1039	*B4	IC921	L5	Q704	*N5	R89	*K2	R328	*J4	R550	D6	R736	N5	R1011	*A2	RB613	*K5	S502	C4		
C212	*M4	C411	*F4	C708	*L5	C1002	*C3	D1040	*B4	IC922	L5	Q705	*N6	R90	*L2	R329	*J4	R551	D6	R737	N6	R1012	*A3	RB614	*K6	S900	C1		
C213	*M4	C412	*E4	C709	*L6	C1003	*D4	D1041	*B4	IC923	*C1	Q706	*N5	R91	*K2	R330	*J4	R552	D6	R738	*M5	R1013	*D4	RB615	*K6	S904	C1		
C214	L4	C413	*F5	C710	*M5	C1004	A3	D1042	*B4	IC924	*E3	Q707	*N6	R92	*K2	R331	*J4	R553	D5	R739	*M6	R1014	*C3	RB700	*M5				
C215	*M4	C414	*F5	C711	*M6	C1005	B3	D1043	*B4	IC925	*D2	Q708	N5	R93	*H2	R332	G5	R554	D5	R740	*M5	R1015	B6	RB701	*M5	THP1	N2		
C216	*M4	C415	E5	C712	*M5	C1006	*D5	D1044	*B4	IC926	*D1	Q709	N6	R94	*H2	R333	G5	R555	D5	R741	*M6	R1016	B6	RB702	*L5	THP2	N1		
C217	M4	C416	F3	C713	*M6			D1045	*B3	IC928	D1	Q710	N5	R95	*K2	R334	*G5	R556	D5	R742	*N5	R1017	B6	RB703	*L5				
C218	*M4	C417	F3	C714	*M5	CL300	G4	D1046	*B3	IC930	*F1	Q711	N6	R96	*K2	R335	*G4	R557	D5	R743	*N6	R1018	B6	RB704	*M6	TP2	F2		
C219	*M3	C418	F3	C715	*M6	CL301	G4	D1047	*B3	IC931	*E1	Q901	*C2	R97	*H1	R336	*G4	R558	*G6	R744	*N5			RB705	*M6	TP3	L2		
C220	M3	C419	E3	C716	*M5	CL302	G4	D1048	*B3	IC932	*E1	Q902	*C2	R98	*H1	R337	*G4	R559	*G6	R745	*N5	RB300	J4	RB706	*L6	TP4	H2		
C221	M3	C420	E3	C717	*M6	CL303	G4	D1049	*B3	IC1009	*A3	Q1000	*A2	R99	L2	R338	*G4	R560	*N5	R746	*N6	RB301	J4	RB707	*L6	TP5	G2		
C222	*M4	C421	F3	C718	*M5	CL400	F5	D1050	*B3	IC1010	*A2	Q1001	*A2	R100	*K2	R339	*J4	R565	*C6	R747	*N6	RB302	J4	RB708	*L5	TP6	J2		
C223	*M4	C422	*D6	C719	*M6	CL401	F5	D1051	*B3	IC1013	*A3	Q1002	*A2	R101	*L2	R340	*J4	R566	*D6	R748	N5	RB303	J4	RB709	*L5	TP200	M5		
C224	M4	C501	N5	C720	*M6	CL402	F5	D1052	*B3	IC1016	*B3	Q1003	*A2	R102	*L2	R341	*G5	R567	*H6	R749	*N5	RB304	G5	RB710	*L5	TP201	K3		
C225	M3	C502	*N5	C721	*M6	CL403	F5	D1053	A2	IC1019	A3	Q1004	*A2	R103	*L1	R342	*J5	R568	*H6	R750	N6	RB305	H5	RB712	*L6	TP202	K3		
C226	*M4	C503	N5	C722	*M6	CL404	E5	D1054	*C3	IC1020	B3	Q1005	*A2	R104	*L2	R343	*J4	R569	J6	R751	*N6	RB306	*G5	RB713	*L6	TP500	H6		
C227	*M4	C504	*N5	C723	*M6	CL405	E6	D1055	B6	IC1021	*B3			R105	*H1	R344	*G5	R600	*G5	R752	N5	RB307	*G5	RB717	*L6	TP501	G6		
C228	*M3	C505	N5	C724	*M6	CL500	C6	D1056	B6	IC1024	D4	R1	*N6	R106	*J1	R345	*G5	R601	*G5	R753	*N5	RB308	*G4	RB718	*L6	TP502	G6		
C229	*M4	C506	*N5	C725	*M6	CL501	C5	D1057	B6	IC1025	C3	R2	*N6	R107	*L1	R346	K4	R602	*G5	R754	*N5	RB309	*G4	RB719	*L6	TP503	G6		

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